# Pioneer sound.vision.soul

# Service Manual



ORDER NO. CRT3169

DEH-P26/XM/UC

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH FM/AM TUNER

# DEH-P2600/xm/uc DEH-P2650/xm/es

This service manual should be used together with the following manual(s):

Model No.	Order No.	Mech.Module	Remarks
CX-3110	CRT3178	S10.1	CD Mech. Module:Circuit Description, Mech. Description, Disassembly



PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER CORPORATION 2003

## SAFETY INFORMATION

#### **CAUTION**

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

#### **WARNING**

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This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm. Health & Safety Code Section 25249.6 - Proposition 65

# CD Player Service Precautions



- 1. Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside the unit.
- 2. To protect the pickup unit from electrostatic discharge during serviving, take an appropriate treatment(shorting-solder) by referring to "the DISAS-SEMBLY" on page 50.
- 3. After replacing the pickup unit, be sure to check the grating.(See p.46.)

DEH-P26/XM/UC

[ Important symbols for good services ]
In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely.
When you find the procedures bearing any of the symbols, be sure to fulfill them:

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You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

#### 2. Adjustments



To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

#### 3. Cleaning



For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

#### 4. Shipping mode and shipping screws



To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

#### 5. Lubricants, glues, and replacement parts



Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount. For replacement parts or tools, the prescribed ones should be used.



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DEH-P26/XM/UC

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#### CONTENTS 6. ADJUSTMENT 44

 6.2 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT
 46

 6.3 ERROR MODE
 48

 6.4 SYSTEM MICROCOMPUTER TEST PROGRAM
 49

 7. GENERAL INFORMATION
 50

 7.1 DIAGNOSIS
 50

 7.1.1 DISASSEMBLY
 50

 7.1.2 CONNECTOR FUNCTION DESCRIPTION
 53

 7.2 PARTS
 54

 7.2.1 IC
 54

 7.2.2 DISPLAY
 61

 7.3 OPERATIONAL FLOW CHART
 64

 7.4 CLEANING
 65

 8. OPERATIONS
 66

DEH-P26/XM/UC

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#### ● DEH-P26/XM/UC, DEH-P2600/XM/UC

#### General

Power source	14.4 V DC (10.8 – 15.1 V allowable)		
Grounding system	Negative type		
Max. current consumption			
	10.0 A		
Backup current	5 mA or less		
Dimensions (W $\times$ H $\times$ D): DIN			
	$178 \times 50 \times 157 \text{ mm}$ (7 × 2 × 6-1/8 in.)		
Nose	$188 \times 58 \times 19 \text{ mm}$ (7-3/8 × 2-1/4 × 3/4 in.)		
D			
	$178 \times 50 \times 162 \text{ mm}$ (7 × 2 × 6-3/8 in.)		
Nose	$170 \times 46 \times 14 \text{ mm}$ (6-3/4 × 1-3/4 × 1/2 in.)		
Weight	1.4 kg (3 lbs)		

#### **Audio**

Continuous power output is 22 W per channel minimum into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.

Maximum power output ...... 50 W  $\times$  4 Load impedance ........ 4  $\Omega$  (4 – 8  $\Omega$  allowable) Preout max output level/output impedance ...... 2.2 V/1 k $\Omega$  Equalizer (3-Band Parametric Equalizer):

Gain ..... ±12dB Mid

when boosted)
Gain .....±12dB

High

Loudness contour

Low ....... +3.5 dB (100 Hz), +3 dB (10 kHz)

Mid ......+10 dB (100 Hz), +6.5 dB

... +10 dB (100 Hz), +6.5 dB (10 kHz) High ......+11 dB (100 Hz), +11 dB (10 kHz) (volume: -30 dB)

#### **CD** player

System		<ul> <li>Compact disc audio syster</li> </ul>
Usable discs		. Compact disc
Signal format	t:	
Samplin	g frequency	. 44.1 kHz
Number	of quantizatio	n bits
		. 16; linear
Frequency ch	aracteristics	.5-20,000 Hz (±1 dB)
Signal-to-nois	se ratio	.94 dB (1 kHz) (IHF-A net-
		work)
Dynamic rang	ge	.92 dB (1 kHz)
Number of ch	nannels	. 2 (stereo)

#### FM tuner

Frequency range	87.9 – 107.9 MHz
Usable sensitivity	
	S/N: 30 dB)
50 dB quieting sensitivity	10 dBf (0.9 $\mu$ V/75 $\Omega$ , mono)
Signal-to-noise ratio	75 dB (IHF-A network)
Distortion	0.3 % (at 65 dBf, 1 kHz,
	stereo)
	0.1 % (at 65 dBf, 1 kHz,
	mono)
Frequency response	30 – 15,000 Hz (±3 dB)
Stereo separation	45 dB (at 65 dBf, 1 kHz)
Selectivity	80 dB (±200 kHz)
Three-signal intermodulation	n (desired signal level)
	30 dBf (two undesired sig-
	nal level: 100 dBf)

#### AM tuner

Frequency range 530 – 1,710 kHz (10 kHz)
Usable sensitivity18 µV (S/N: 20 dB)
Signal-to-noise ratio 65 dB (IHF-A network)

# Note

DEH-P26/XM/UC

Specifications and the design are subject to possible modifications without notice due to improvements.

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	<b>General</b> Rated power source14.4 V DC (allowable voltage range:
•	12.0 – 14.4 V DC)  Grounding system Negative type  Max. current consumption
	Backup current 5 mA or less
В	Dimensions (W $\times$ H $\times$ D): DIN
	Chassis
•	Chassis
С	Audio Continuous power output is 22 W per channel minimur into 4 ohms, both channels driven 50 to 15,000 Hz with
	no more than 5% THD.  Maximum power output $50 \text{ W} \times 4$
	Load impedance
	Equalizer (3-Band Parametric Equalizer): Low
D	Frequency
	Gain±12dB Mid
	Frequency200/500/1k/2k Hz

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CD	pl	ayer	
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System	Compact disc audio system
Usable discs	Compact disc
Signal format:	
Sampling frequency	44.1 kHz
Number of quantization	on bits
	16; linear
Frequency characteristics.	5 – 20,000 Hz (±1 dB)
Signal-to-noise ratio	94 dB (1 kHz) (IEC-A net-
	work)
Dynamic range	92 dB (1 kHz)
Number of channels	2 (stereo)

#### **FM** tuner

Frequency range	87.5 – 108.0 MHz
Usable sensitivity	8 dBf (0.7 $\mu$ V/75 $\Omega$ , mono,
	S/N: 30 dB)
50 dB quieting sensitivity	10 dBf (0.9 $\mu$ V/75 $\Omega$ , mono)
Signal-to-noise ratio	75 dB (IEC-A network)
Distortion	0.3 % (at 65 dBf, 1 kHz,
	stereo)
	0.1 % (at 65 dBf, 1 kHz,
	mono)
Frequency response	30 – 15,000 Hz (±3 dB)
Stereo separation	45 dB (at 65 dBf, 1 kHz)

#### **AM** tuner

Frequency range531 – 1,602 kHz (9 kHz)
530 – 1,640 kHz (10 kHz)
Usable sensitivity18 $\mu$ V (S/N: 20 dB)
Signal-to-noise ratio65 dB (IEC-A network)

#### Infrared remote control

Wavelength	940 nm ±50 nm
Output	typ; 12 mw/sr per Infrared
	LED



Specifications and the design are subject to possible modifications without notice due to improvements.

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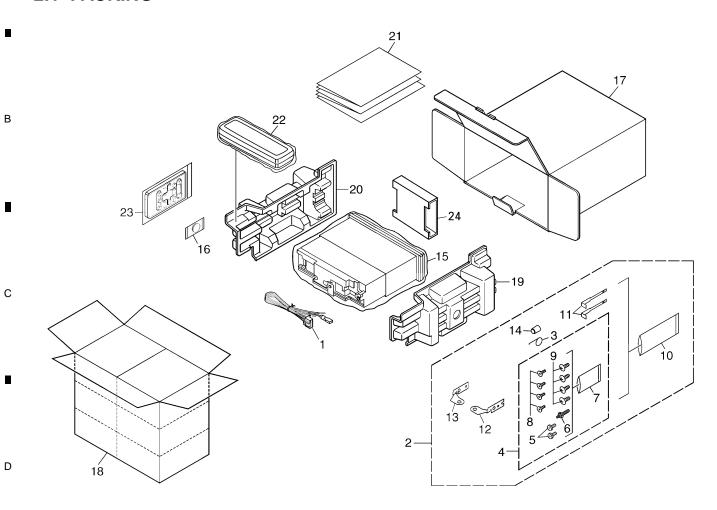
# 2. EXPLODED VIEWS AND PARTS LIST

NOTES: • Parts marked by "\*" are generally unavailable because they are not in our Master Spare Parts List.

- Screw adjacent to  $\nabla$  mark on the product are used for disassembly.
- For the applying amount of lobricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

# 2.1 PACKING

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#### (1) PACKING SECTION PARTS LIST

	` '						
	Mark No.	<b>Description</b>	Part No.	Mar	<u>k No.</u>	<u>Description</u>	Part No.
	1	Cord Assy	CDE7060				
E	2	Accessory Assy	See Contrast table(2)	*	16	Battery	CEX1065
	3	Spring	CBH1650		17	Carton	See Contrast table(2)
	4	Screw Assy	See Contrast table(2)		18	Contain Box	See Contrast table(2)
	5	Fixing Screw	See Contrast table(2)		19	Protector	CHP2663
					20	Protector	CHP2664
	6	Screw	CBA1650				
	* 7	Polyethylene Bag	CEG-127		21-1	Owner's Manual	See Contrast table(2)
-	8	Screw	CRZ50P090FTC		21-2	Owner's Manual	See Contrast table(2)
	9	Screw	TRZ50P080FTC		21-3	Installation Manual	See Contrast table(2)
	* 10	Polyethylene Bag	CEG-158	*	21-4	Warranty Card	See Contrast table(2)
				*	21-5	Card	See Contrast table(2)
	11	Handle	CNC5395				
F	12	Holder	See Contrast table(2)	*	21-6	Caution Card	See Contrast table(2)
	13	Holder	See Contrast table(2)		22	Case Assy	See Contrast table(2)
	14	Bush	CNV3930		23	Remote Control Unit	CXC3173
	15	Polyethylene Bag	See Contrast table(2)		24	Inner Box	XHW7001
	8		DEH-P26/X	(M/UC			
		1 -	2			3	4

# (2) CONTRAST TABLE DEH-P26/XM/UC, DEH-P2600/XM/UC and DEH-P2650/XM/ES are constructed the same except for the following:

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		Parts No.			
Mark No.	Symbol and Description	DEH-P26/XM/UC	DEH-P2600/XM/UC	DEH-P2650/XM/ES	
2	Accessory Assy	CEA3376	CEA3376	CEA3439	
4	Screw Assy	CEA3848	CEA3848	CEA3849	
5	Fixing Screw	BPZ20P060FZK	BPZ20P060FZK	Not used	
12	Holder	CND1249	CND1249	Not used	
13	Holder	CND1250	CND1250	Not used	
15	Polyethylene Bag	CEG1173	CEG1173	CEG-162	
17	Carton	XHG7020	XHG7019	XHG7017	
18	Contain Box	XHL7020	XHL7019	XHL7017	
21-1	Owner's Manual	XRD7038	XRD7038	XRD7032	
21-2	Owner's Manual	Not used	Not used	XRD7033	
21-3	Installation Manual	XRD7039	XRD7039	XRD7034	
* 21-4	Warranty Card	CRY1070	Not used	Not used	
* 21-5	Card	ARY1048	ARY1048	Not used	
* 21-6	Caution Card	CRP1294	Not used	Not used	
22	Case Assy	Not used	Not used	CXB3520	

#### Owner's Manual, Installation Manual

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Model	Parts No.	Language
DEH-P26/XM/UC	XRD7038	English, French, Spanish
DEH-P2600/XM/UC	XRD7039	
DEH-P2650/XM/ES XRD7032		English, Spanish, Portuguese(B)
	XRD7033	Arabic, Traditional Chinese
	XRD7034	English, Spanish, Portuguese(B), Arabic, Traditional Chinese

DEH-P26/XM/UC

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(1) EXTE	RIOR SECTION PARTS	LIST				
Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
1	Screw	BMZ30P040FZK				
2	Screw	BSZ26P060FTC	51	Fuse(10A)	CEK1208	Α
3	Screw	BSZ30P060FTC	52	FM/AM Tuner Unit	CWE1646	
4	Screw	BSZ30P200FTC	53	Holder	CND1054	
5	Terminal(CN402)	VNF1084	54	Pin Jack(CN351)	See Contrast table(2)	
Ŭ	10111miai(G14102)	*****	55	Plug(CN981)	CKM1376	
6	Cord Assy	CDE7060		,		
7	Button(EJECT)	CAC7752	56	Connector(CN801)	See Contrast table(2)	_
8	Screw(M2x4.5)	CBA1647	57	Connector(CN101)	CKS3408	
9	Screw(M2x4)	CBA1649	58	Plug(CN831)	CKS3537	
10	Washer	CBF1038	59	Connector(CN721)	CKS3835	
10	vvasiici	OBI 1000	60	Antenna Jack(CN401)	CKX1056	
11	Spring	CBH2650		,		В
12	Spring	CBH2651	61	Holder	See Contrast table(2)	
13	Spring	CBH2652	62	Holder	CND1352	
14	Spring	CBH2653	63	Heat Sink	CNR1668	
15	Holder	CND1254	64	Insulator	XNM7031	
13	Tolder	OND 1234	65	Detachable Assy	See Contrast table(2)	
16	Gear	CNV5997			(_)	
17	Arm	CNV7400	66	Screw	BPZ20P100FZK	
	Arm	CNV7400 CNV7401	67	Spring	CBL1470	
18			68	Knob	See Contrast table(2)	
19	Arm	CNV7402	69	Button(1-6)	XAC7005	
20	Arm	CNV7403	70	Button(LOUD)	XAC7020	С
24	Donal I Init	CMMOZEO	70	Batton(2008)	77.07.020	
21	Panel Unit	CWM8758	71	Button(PAUSE)	XAC7019	
22	Socket(CN1950)	CKS3550	72	Button(OPEN)	See Contrast table(2)	
23	Connector(CN1951)	CKS4806	73	Spring	XBH7001	
24	Holder Unit	CXB9501	73	Cover	XNS7013	
25	Holder Unit	CXB9502	75	Keyboard Unit	See Contrast table(2)	_
00	Danna an Hair	0,70000	73	Reyboard Offic	See Contrast table(2)	
26	Damper Unit	CXB9503	76	LCD(LCD1901)	See Contrast table(2)	
27	Service Panel Unit	CXX1691	70 77	Connector(CN1901)	CKS4524	
28	Spring	CBL1512	77 78	Sheet	XNM7006	
29	Cover	CNM6854	79	Connector	XNV7006	D
30	Panel	CNS7245	80	Holder	XNC7002	
0.4	D' -	ONIV /0 400	00	lioidei	XIVO7002	
31	Pin	CNV6486	81	Lighting Conductor	XNV7005	
32	Lighting Conductor	CNV6487	82	Button(BAND)	XAC7021	
33	Case	CNB2793	83	Button(EQ)	XAC7021 XAC7022	
34	Earth Plate	CNC8915	84	Sub Grille Assy	See Contrast table(2)	
35	Cushion	CNM8890	85	Sub Button Assy(SELECT)	See Contrast table(2)	
00	Landatan	ON IN 7000	00	Sub Button Assy(SEEECT)	See Contrast table(2)	
36	Insulator	CNM7682	86	IC(IC301)	PAL007A	
37	Insulator	CNM7935	87	Choke Coil(L981)	CTH1291	_
38	Insulator	CNM8174	88	Transistor(Q752,901,911)	2SD2375	Е
39	Panel	See Contrast table(2)	89	Screw	See Contrast table(2)	
40	Holder Unit	CXB6681	90	Holder	See Contrast table(2)	
4.4	01	0\/00500	90	lioldel	See Contrast table(2)	
41	Chassis Unit	CXB9528	91	••••		
42	Remote Control Unit	CXC3173	* 92	Lighting Conductor	XNV7012	
43	Cover	CNS7068	93	0 0		
44	CD Mechanism Module(S10)	CXK5602	93	Button(CLOCK)	See Contrast table(2)	
45	Screw	ISS26P055FTC				
		00==105				
46	Cable	CDE7188				F
47	Tuner Amp Unit	See Contrast table(2)				г
48	Screw	ASZ26P060FTC				
49	Screw	BPZ26P080FTC				
50	Screw	BSZ26P160FTC				

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(2) CONTRAST TABLE DEH-P26/XM/UC, DEH-P2600/XM/UC and DEH-P2650/XM/ES are constructed the same except for the following:

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		Parts No.			
Mark No.	Symbol and Description	DEH-P26/XM/UC	DEH-P2600/XM/UC	DEH-P2650/XM/ES	
39	Panel	XNS7070	XNS7070	CNS6935	
47	Tuner Amp Unit	XWM7026	XWM7026	XWM7027	
54	Pin Jack(CN351)	CKB1059	CKB1059	CKB1062	
56	Connector(CN801)	CKS4124	CKS4124	Not used	
61	Holder	CND1271	CND1271	CND1237	
65	Detachable Assy	XXA7124	XXA7123	XXA7125	
68	Knob	XAA7014	XAA7014	XAA7016	
72	Button(OPEN)	XAC7012	XAC7012	XAC7026	
75	Keyboard Unit	XWM7035	XWM7034	XWM7068	
76	LCD(LCD1901)	CAW1760	CAW1759	CAW1764	
84	Sub Grille Assy	XXA7139	XXA7138	XXA7140	
85	Sub Button Assy(SELECT)	XXA7234	XXA7234	XXA7235	
89	Screw	BMZ40P140FTC	Not used	Not used	
90	Holder	CNV7619	Not used	Not used	
93	Button(CLOCK)	XAC7024	XAC7024	XAC7016	

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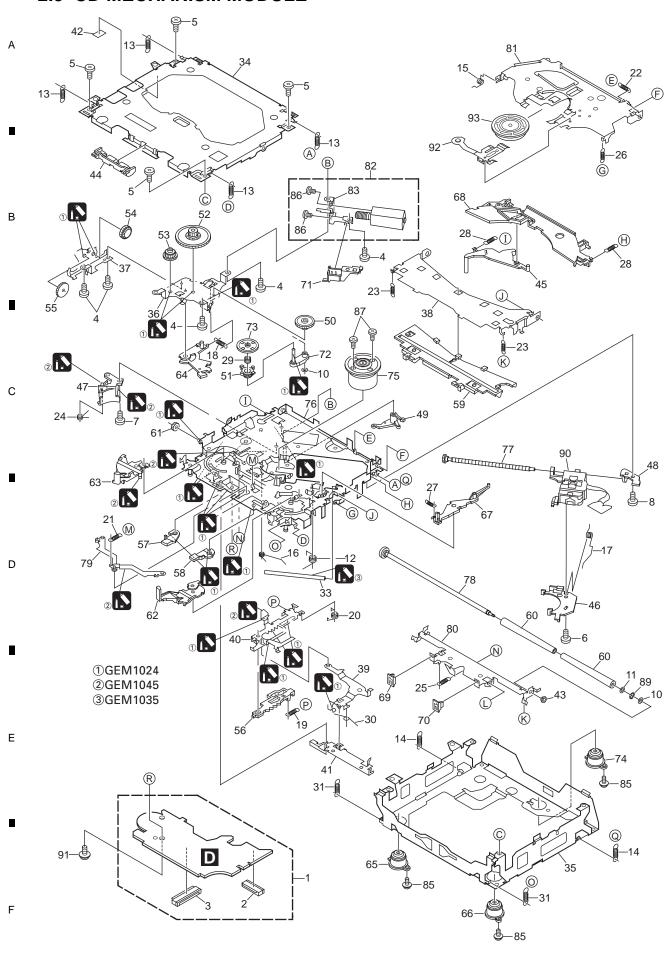
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#### 2.3 CD MECHANISM MODULE



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CD MEC	HANISM MODULE S	SECTION PARTS LIST					
Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.		
1	CD Core Unit(S10)	CWX2947					
2	Connector(CN101)	CKS4182	51	Gear	CNV7208	A	4
3	Connector(CN701)	CKS4188	52	Gear	CNV7209		
4	Screw	BMZ20P035FTC	53	Gear	CNV7210		
5	Screw	BSZ20P040FTC	54	Gear	CNV7211		
-	00.01	DOLLOI 0 101 . 0	55	Gear	CNV7212		
6	Screw(M2x4)	CBA1362				ļ	
7	Screw(M2x3)	CBA1511	56	Rack	CNV7214	-	•
8	Screw(M2x3)	CBA1527	57	Arm	CNV7215		
9	•••••		58	Arm	CNV7216		
10	Washer	CBF1038	59	Guide	CNV7217		
	•••••	<del>-</del>	60	Roller	CNV7218		_
11	Washer	CBF1060				I	В
12	Spring	CBH2390	61	Gear	CNV7219		
13	Spring	CBH2606	62	Arm	CNV7221		
14	Spring	CBH2607	63	Arm	CNV7220		
15	Spring	CBH2608	64	Arm	CNV7222		
	Opinig	<b>35</b> 1	65	Damper	CNV7313	ŗ	
16	Spring	CBH2609		•		-	•
17	Spring	CBH2610	66	Damper	CNV7314		
18	Spring	CBH2735	67	Arm	CNV7341		
19	Spring	CBH2612	68	Arm	CNV7342		
20	Spring	CBH2613	69	Guide	CNV7360		
20	Spring	ODI IZO IO	70	Guide	CNV7361	(	С
21	Spring	CBH2614	•	<b>0</b> 4.30	•		
22	Spring	CBH2615	71	Holder	CNV7437		
		CBH2616	72	Arm	CNV7805		
23	Spring		73	Gear	CNV7595		
24	Spring	CBH2617	74	Damper	CNV7618	ļ	
25	Spring	CBH2620	75	Motor Unit(M1)	CXB6007	-	•
26	Chrina	CBH2621		Wiotor Officiary	O/DOO!		
26 27	Spring		76	Chassis Unit	CXC2318		
27	Spring	CBH2641	77	Screw Unit	CXB8729		
28	Spring	CBH2642	77 78	Gear Unit	CXC2397		
29	Spring	CBH2643	78 79	Arm Unit	CXC2397	[	D
30	Spring	CBH2659		Arm	CND1896		
21	0	CDLIDEOD	00	Allii	OND 1000		
31	Spring	CBH2688	81	Arm	CND1894		
32	Ch off	01.5.4444	82	Motor Unit(M2)	CXB8933		
33	Shaft	CLA4441	83	Bracket	CNC9985	ŗ	4
34	Frame	CNC9962	84	•••••	CINCARO		-
35	Frame	CNC9963	84 85	Screw(M2x5)	EBA1028		
20	5	01100000	00	SCIEW(IVIZAS)	EDATUZO		
36	Bracket	CNC9966	86	Screw	JFZ20P020FTC		
37	Bracket	CND1895	87	Screw	JGZ17P022FTC		_
38	Arm	CNC9968	88	ooooo	JULITUZZI IU	t	Ε
39	Arm	CND1909			VEGOETO		
40	Lever	CND2032	89	Washer	YE20FTC		
			90	Pickup Unit(P10)(Service)	CXX1641		
41	Lever	CNC9984	01	Caraci	IMESEROSOETO		
42	Sheet	CNM8134	91	Screw	IMS26P030FTC	ľ	
43	Collar	CNV7798	92	Spring	CBL1635		
44	Guide	CNV7799	93	Clamper	CNV7197		
45	Arm	CNV7800					
46	Rack	CNV7199				,	_
47	Holder	CNV7201				ı	F
48	Holder	CNV7202					
49	Arm	CNV7203					
50	Gear	CNV7207					
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# 3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

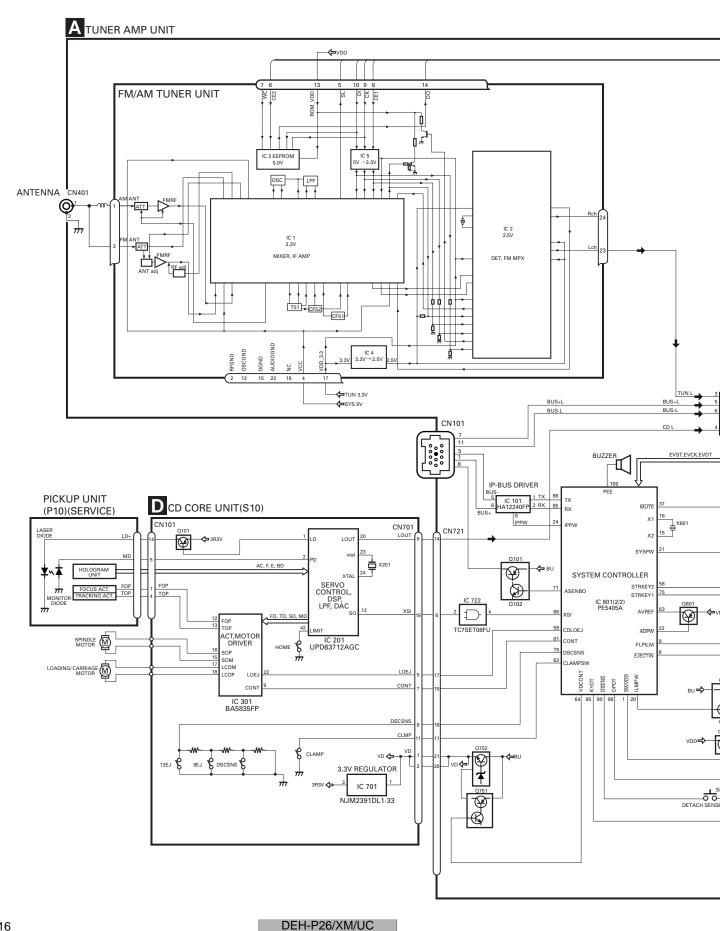
## 3.1 BLOCK DIAGRAM

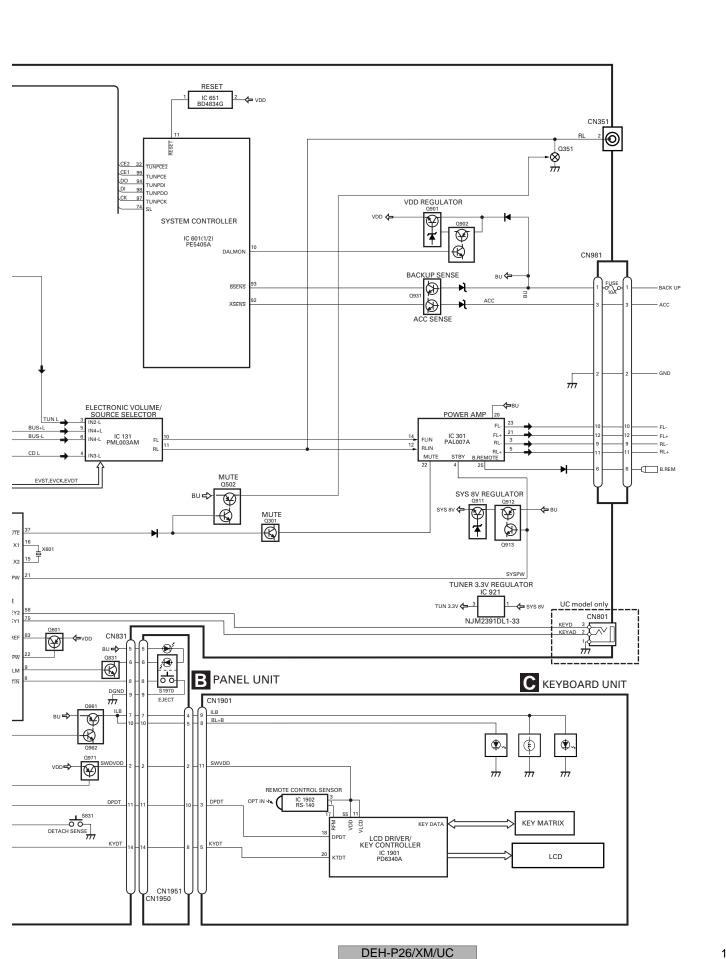
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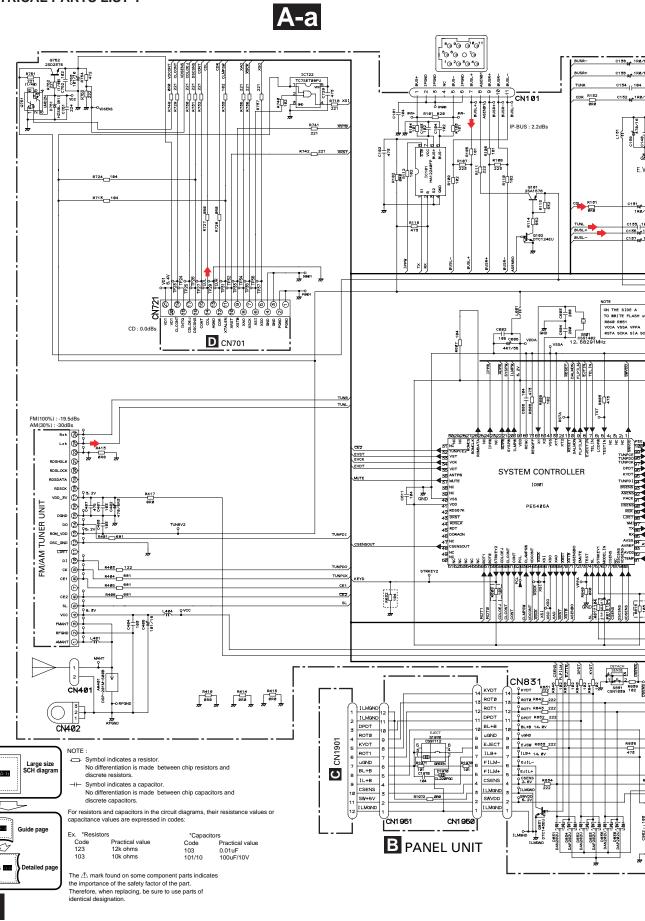
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#### 3.2 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

Note: When ordering service parts, be sure to refer to " EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".



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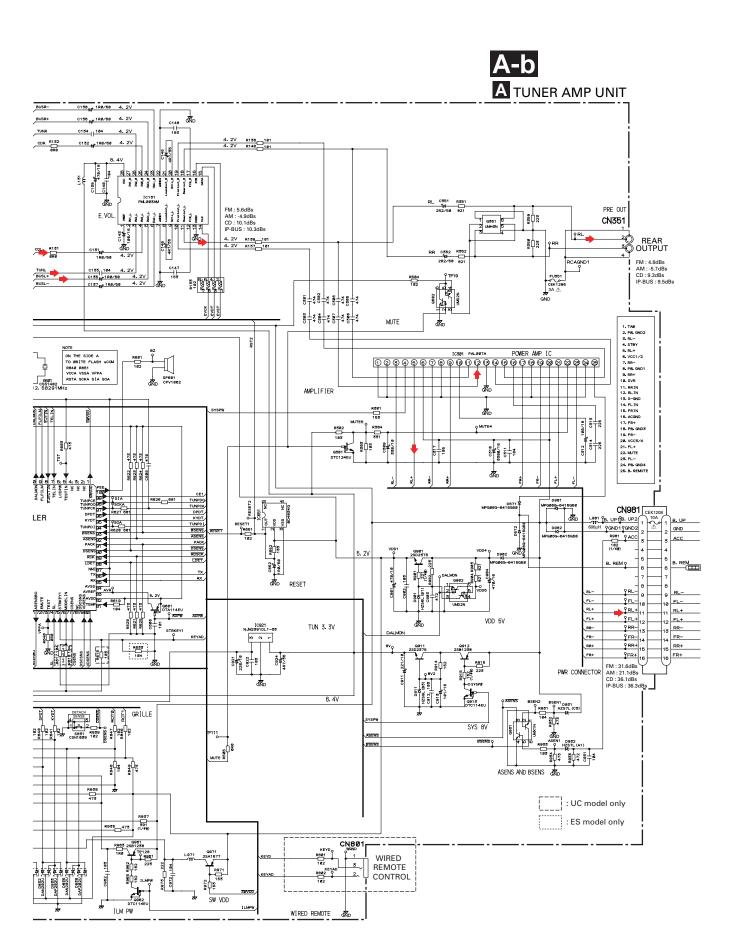
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DEH-P26/XM/UC





DEH-P26/XM/UC

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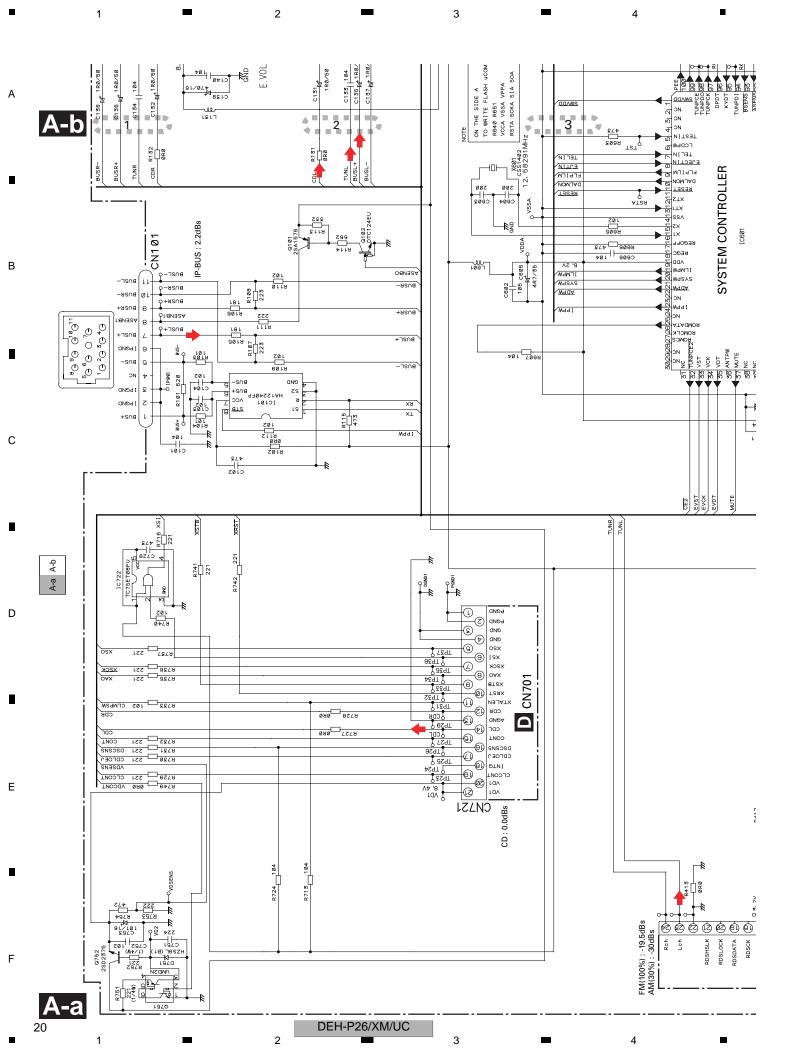
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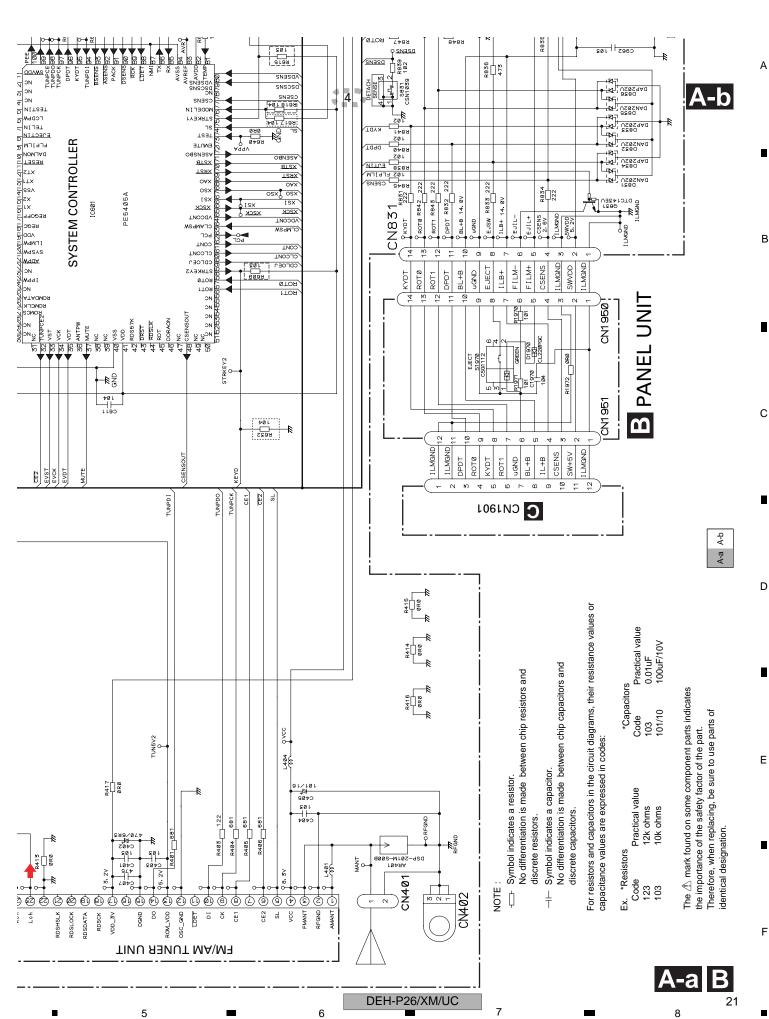
В

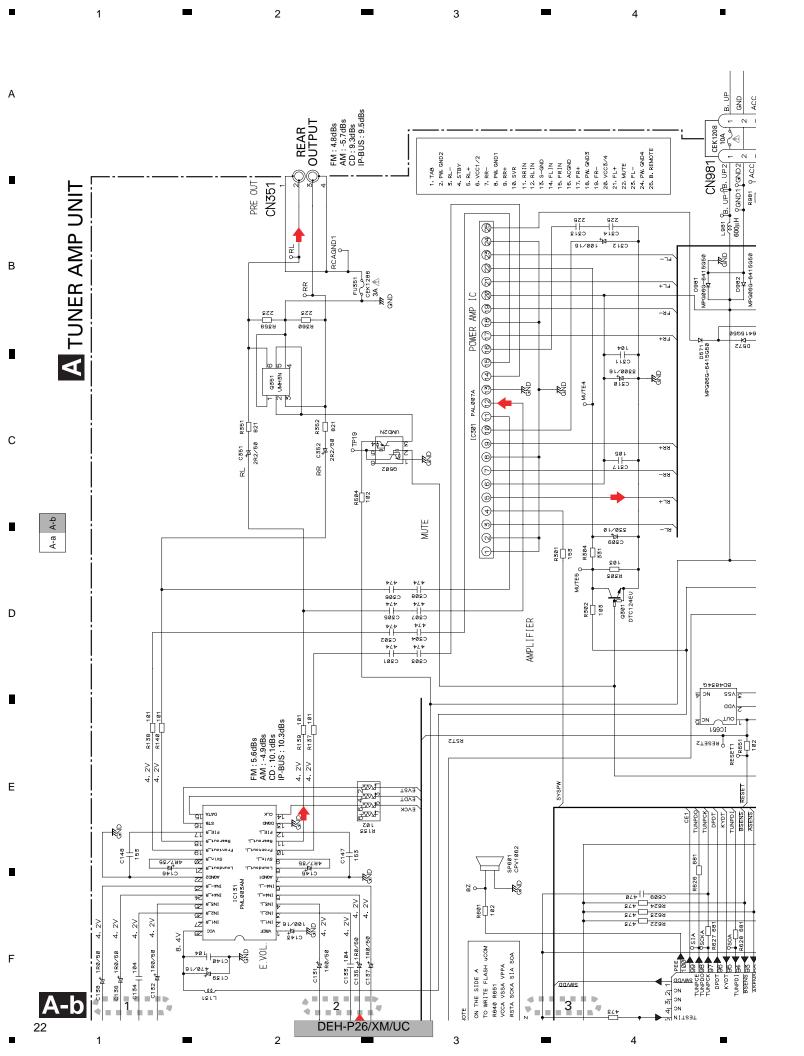
С

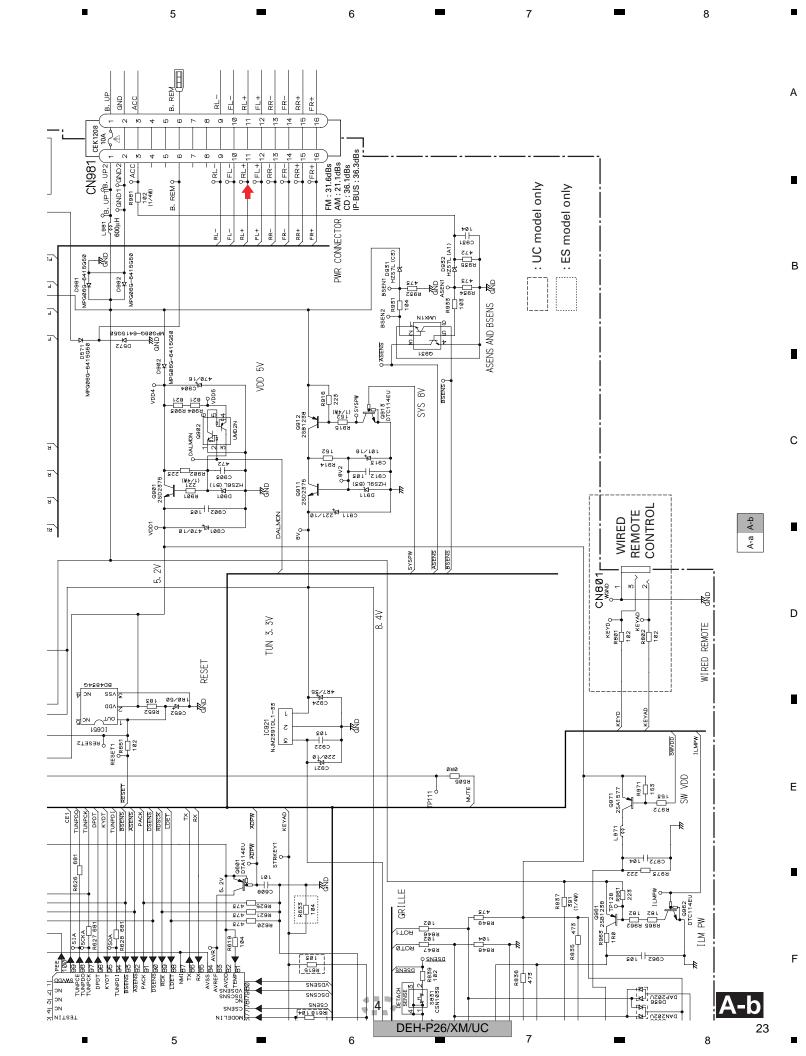
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DEH-P26/XM/UC

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**C** KEYBOARD UNIT

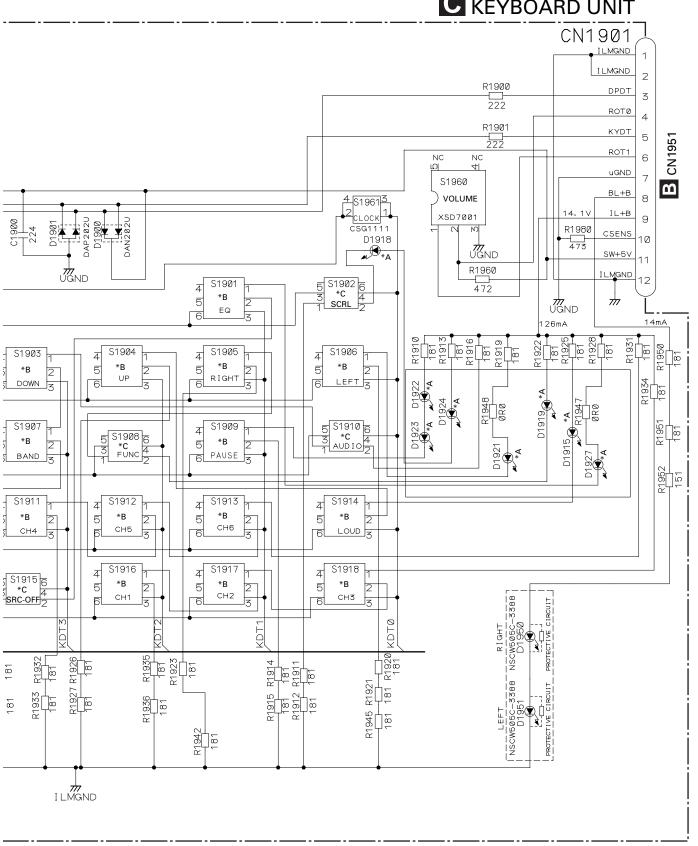
8

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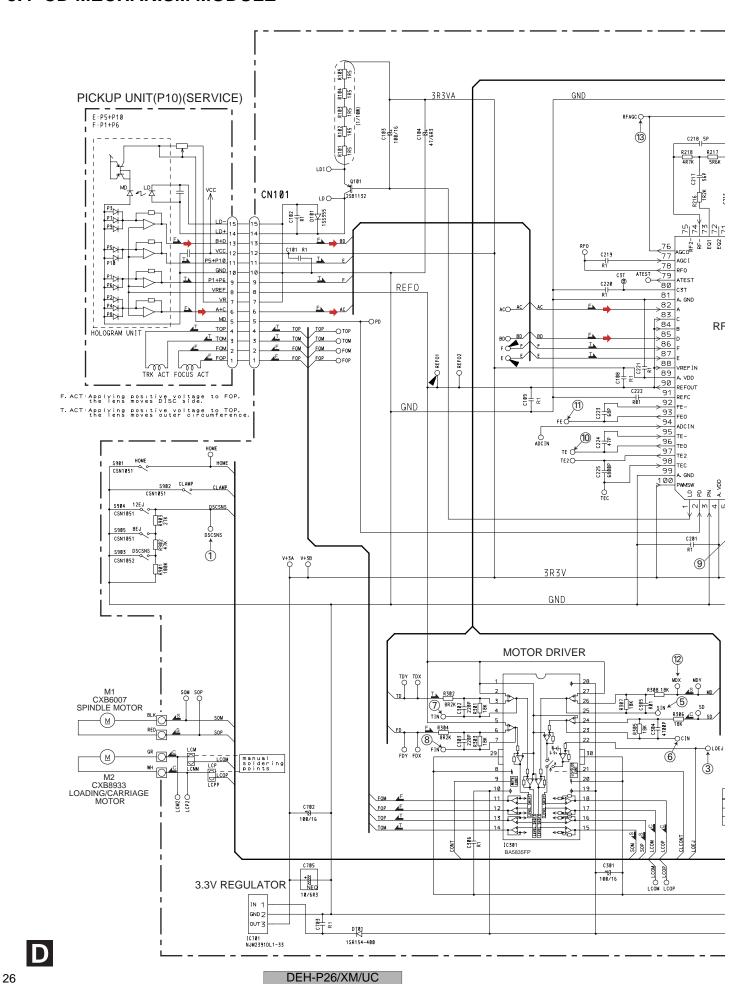
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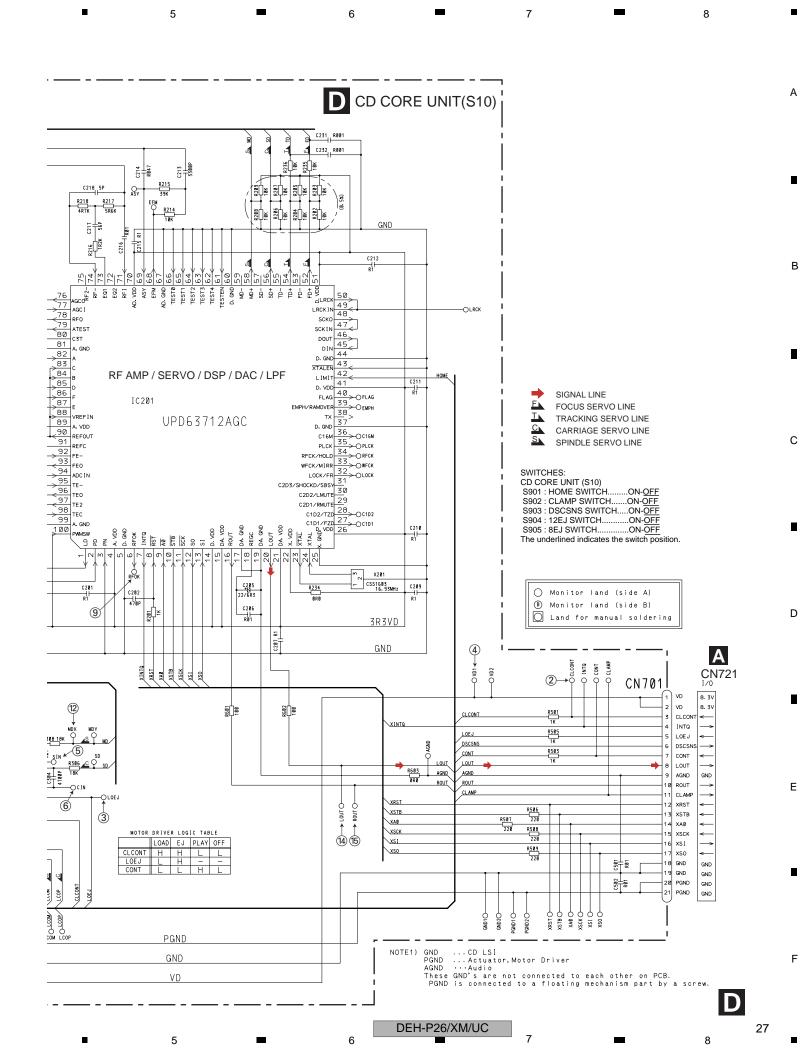
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#### Waveforms

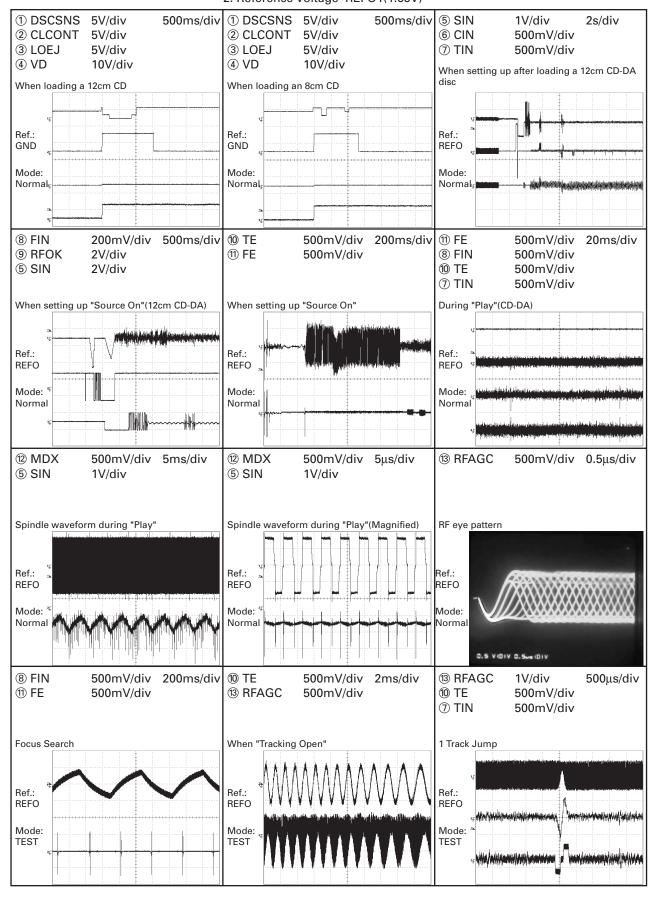
В

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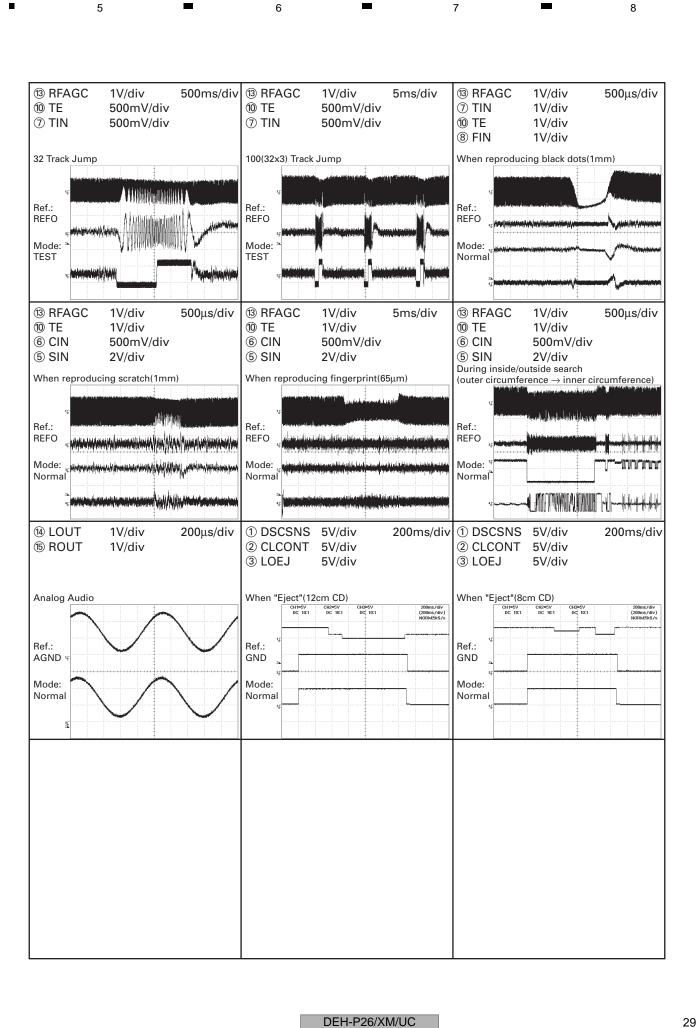
Note: 1. The encircled numbers denote measuring points in the circuit diagram. 2. Reference voltage REFO1(1.65V)



DEH-P26/XM/UC

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DEH-P26/XM/UC

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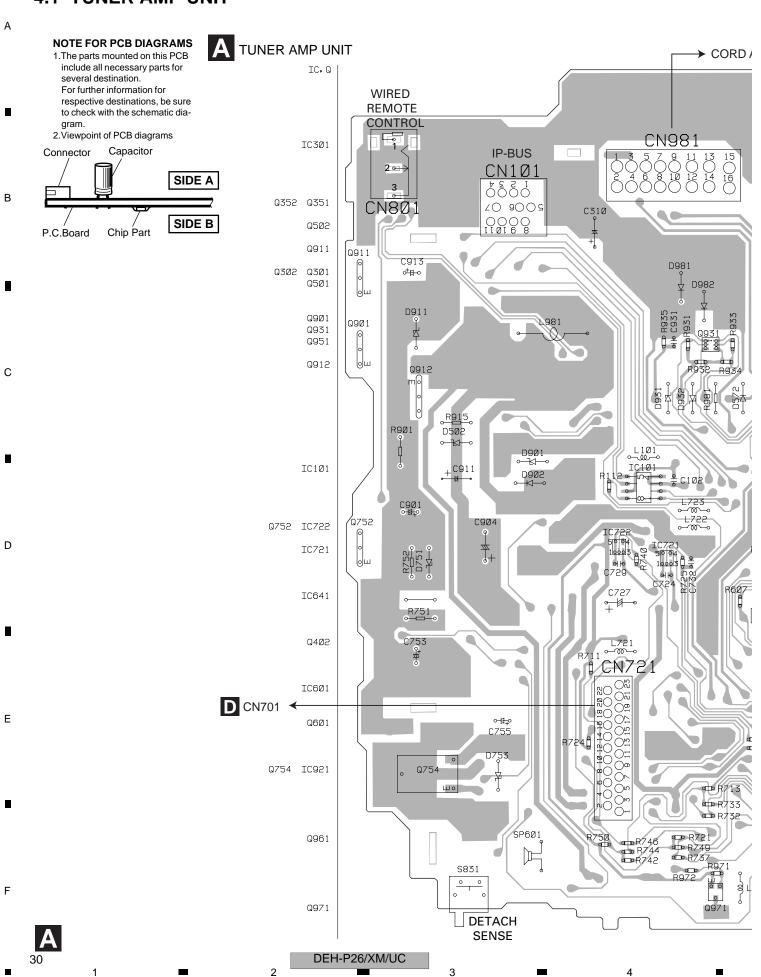
Α

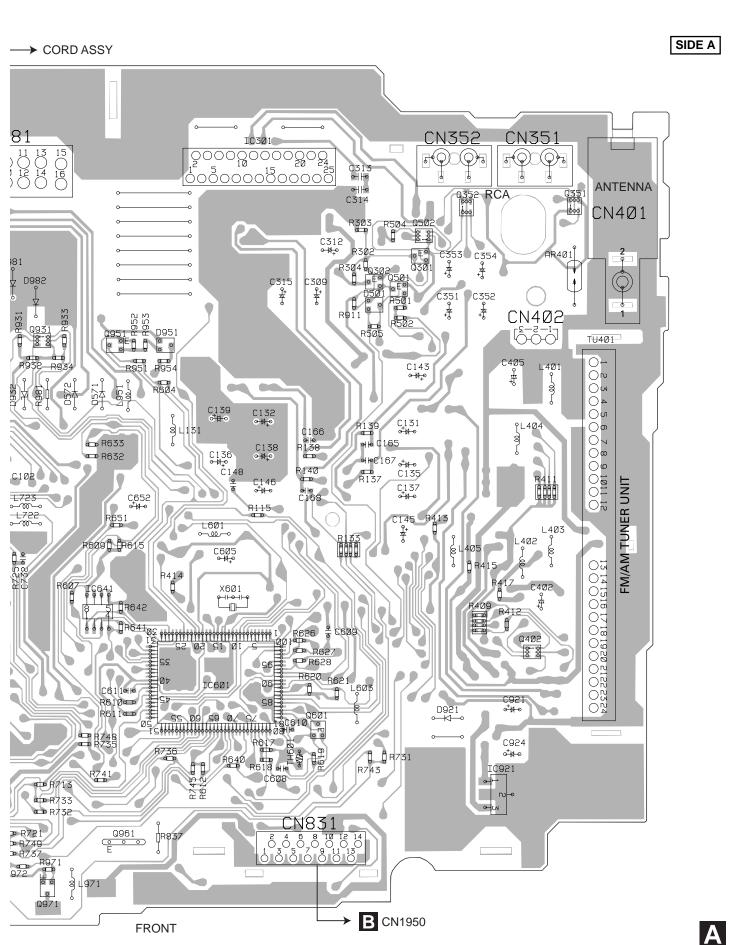
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A TUNER AMP UNIT

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C317 C304 C302 C302 C308 oi io S oi jo C306 a⊒o R36Ø R3Ø1 [0-0-0] C14Ø a № R4Ø6 **Φ** R403 C6Ø3 04Ø1 8\_8 C922 R923 0962 000000

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A 32

DEH-P26/XM/UC

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SIDE B IC, Q C316 ⊶⊩ 0000 0801 0 1.060 1.060 1.000 C311 <del>2</del> <del>5</del> 0102 Q1Ø1 D802 R916 Q913 ○∃° Q913 ен С903 IC131 09Ø2 8-8 0902 R9Ø3 IC651 C9Ø2 C6Ø6 9 le R6Ø6 Q751 C721 에Ю ംR753 ലം C752 Q4Ø1 C756 PCL O R730 00 Q753 00 Q831 Ф R965 0962 Ф R962 R839 DEH-P26/XM/UC 5 6 8

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## **4.2 PANEL UNIT**

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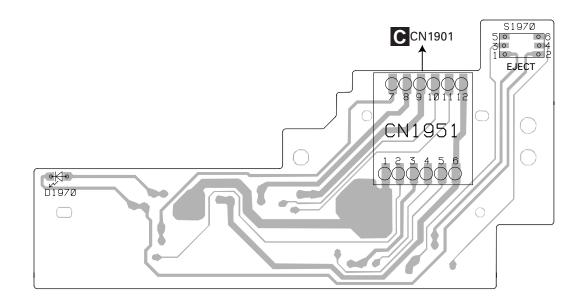
Е

F

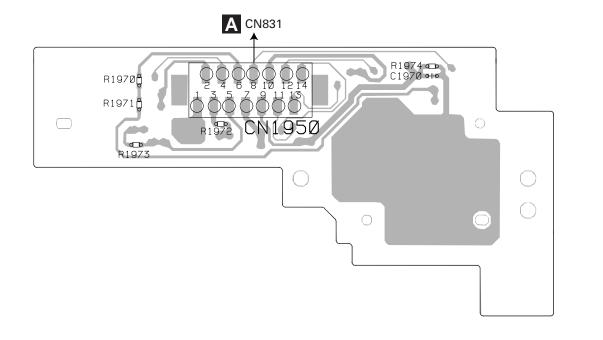
B PANEL UNIT SIDE A

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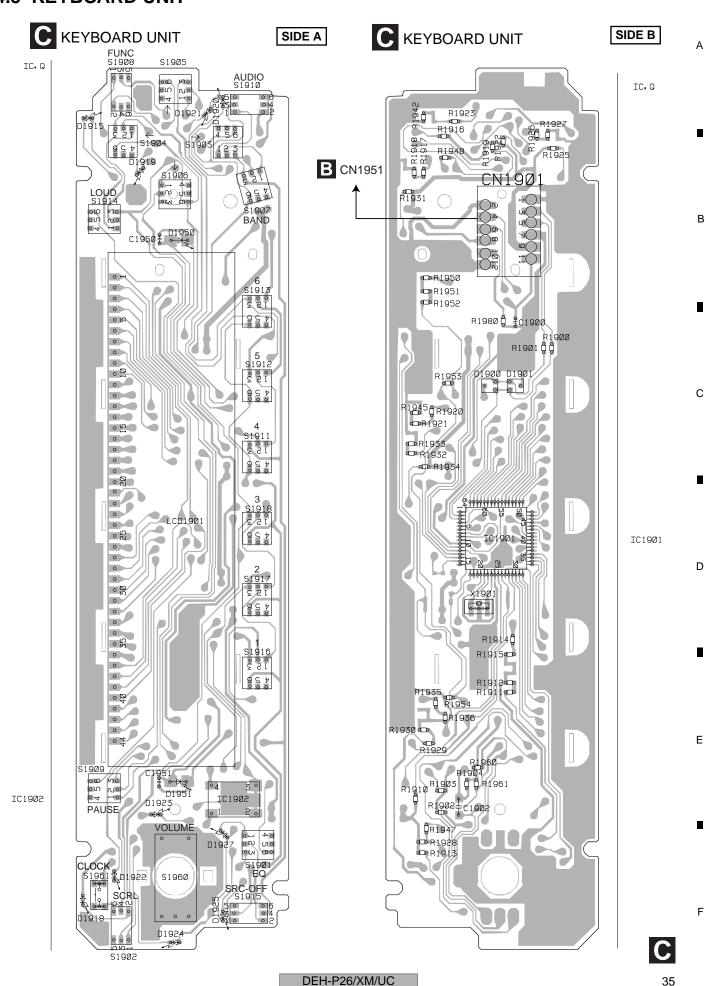




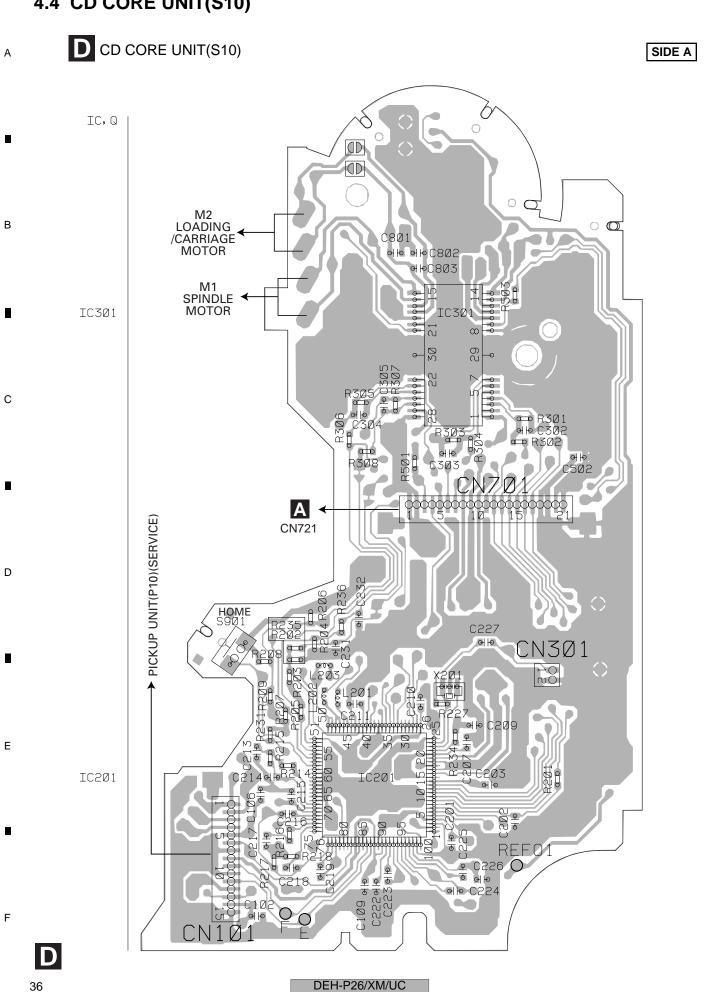
В

DEH-P26/XM/UC

#### **4.3 KEYBOARD UNIT**



4.4 CD CORE UNIT(S10)



D CD CORE UNIT(S10) SIDE B IC, Q 12EJ S9Ø4 **8EJ** S905 R9Ø1 CLAMP S9Ø2 В C3Ø6 C3Ø1 С Ф R237 Ф R238 Ф R5Ø5 D7Ø1 IC7Ø1 R603 R226 B C601 G R605 C601 G R605 R222 C5Ø1 D R5Ø9 0 R23Ø C2Ø8 C7Ø4 C2Ø6 9H9 C2Ø4 0 + | 0 Е C212 C7Ø2 \_\_\_\_\_ ₽ css8 D1Ø1 C1Ø4 C1Ø8 C230 E 0 0 0 <u>\_</u> R104 R105 R105 C103 Q1Ø1 Q1Ø1 DEH-P26/XM/UC 5 6 8

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# 5. ELECTRICAL PARTS LIST

# NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

 $RS1/\bigcirc S\bigcirc\bigcirc\bigcirc J, RS1/\bigcirc\bigcirc S\bigcirc\bigcirc\bigcirc J$ 

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

	Circ	uit Symbol and No.	Part No.	Circ	cuit Symbol and No.	Part No.
В	A Unit Nu	mber:XWM7026(DE :XWM7027(DI	-	D 982 L 131 L 401 L 404 L 601	Diode Inductor Inductor Inductor Inductor	MPG06G-6415G50 LACU2R2K LACU4R7K LACU1R0K LACU2R2K
	Unit Na	me:Tuner Amp Ùni	-	L 971	Inductor	LACU2R2K
	MISCELL	•		L 981 X 601 S 831	Choke Coil 600µH Radiator 12.58291MHz Switch(DETACH SENSE)	CTH1291 CSS1402 CSN1039
				FU351	Fuse 3A	CEK1286
С	IC 101 IC 131 IC 301 IC 601	IC IC IC IC	HA12240FP PML003AM PAL007A PE5405A	00004	Fuse 10A FM/AM Tuner Unit	CEK1208 CWE1646
Ü	IC 651	IC	BD4834G	SP601 AR401	Buzzer Surge Protector	CPV1062 DSP-201M-S00B
	IC 722 IC 921	IC IC	TC7SET08FU NJM2391DL1-33	RESISTO	_	20. 20 0002
	Q 101 Q 102 Q 301	Transistor Transistor Transistor	2SA1576 DTC124EU DTC124EU	R 101 R 102 R 103		RS1/16S620J RS1/16S0R0J RS1/16S101J
	Q 351 Q 502 Q 601	Transistor Transistor Transistor	UMH3N UMD2N DTA114EU	R 104 R 105		RS1/16S101J RS1/16S181J
	Q 751	Transistor	UMD2N	R 106		RS1/16S181J
D	Q 752	Transistor	2SD2375	R 107 R 108 R 109		RS1/16S223J RS1/16S223J RS1/16S102J
	Q 831 Q 901 Q 902	Transistor Transistor Transistor	DTC143EU 2SD2375 UMD2N	R 110		RS1/16S102J
	Q 911 Q 912	Transistor Transistor	2SD2375 2SB1238	R 111 R 112 R 113		RS1/16S222J RS1/16S102J RS1/16S332J
	Q 913 Q 931 Q 961	Transistor Transistor Transistor	DTC114EU UMX1N 2SB1238	R 114 R 115		RS1/16S562J RS1/16S473J
E	Q 962 Q 971	Transistor Transistor	DTC114EU 2SA1577	R 131 R 132 R 133		RS1/16S0R0J RS1/16S0R0J RAB4C102J
_	D 571 D 572 D 751	Diode Diode Diode	MPG06G-6415G50 MPG06G-6415G50 HZS9L(B1)	R 137 R 138		RS1/16S101J RS1/16S101J
	D 831 D 832	Diode Diode	DAN202U DAN202U	R 139 R 140 R 301		RS1/16S101J RS1/16S101J RS1/16S153J
	D 833 D 834 D 835	Diode Diode Diode	DAP202U DAP202U DAN202U	R 302 R 303		RS1/16S103J RS1/16S103J
	D 836 D 901	Diode Diode	DAP202U HZS6L(B1)	R 304 R 351 R 352 R 359		RS1/16S331J RS1/16S821J RS1/16S821J RS1/16S223J
F	D 902 D 911 D 931	Diode Diode Diode	MPG06G-6415G50 HZS9L(B3) HZS7L(C3)	R 360 R 401		RS1/16S223J RS1/16S223J RS1/16S681J
	D 932 D 981	Diode Diode	HZS7L(A1) MPG06G-6415G50	R 403		RS1/16S122J
•	38	1 -	DEH-P26/	XM/UC	3	4

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Circ	uit Symbol and No.	Part No.	Circ	uit Symbol and No.	Part No.	
R 404	<u></u>	RS1/16S681J	R 834	<u></u>	RS1/16S222J	
R 405		RS1/16S681J	R 835		RS1/16S473J	
R 406		RS1/16S681J	R 836		RS1/16S473J	Α
						, ,
R 413		RS1/16S0R0J	R 837		RD1/4PU391J	
R 414		RS1/16S0R0J	R 838		RS1/16S102J	
R 415		RS1/16S0R0J	R 839		RS1/16S102J	
R 416		RS1/16S0R0J	R 840		RS1/16S102J	
R 417		RS1/16S0R0J	R 841		RS1/16S102J	
R 504		RS1/16S102J	R 842		RS1/16S222J	
R 505		RS1/16S0R0J	R 843		RS1/16S222J	
R 601		RS1/16S102J	R 845		RS1/16S102J	
R 603		RS1/16S473J	R 846		RS1/16S102J	
R 605		RS1/16S102J	R 847		RS1/16S102J	
D 000		D04/4004701	D 040		D04/4004041	В
R 606 R 607		RS1/16S473J RS1/16S104J	R 848 R 849		RS1/16S104J RS1/16S473J	
R 609	(DEH-P26,DEH-P2600)	RS1/16S103J	R 901		RD1/4PU221J	
R 615	(DEH-P26,DEH-P2600)	RS1/16S103J	R 902		RS1/16S223J	
R 617	(DEH-P2650)	RS1/16S104J	R 903		RS1/16S821J	
						_
R 618	(DEH-P26,DEH-P2600)	RS1/16S104J	R 904		RS1/16S821J	
R 619		RS1/16S104J	R 914		RS1/16S152J	
R 620		RS1/16S473J	R 915		RD1/4PU152J RS1/16S223J	
R 621 R 622		RS1/16S473J RS1/16S473J	R 916 R 931		RS1/16S104J	
IX OZZ		1101/1004/00	17 001		1001/1001040	
R 623		RS1/16S473J	R 932		RS1/16S473J	С
R 624		RS1/16S473J	R 933		RS1/16S103J	
R 625		RS1/16S473J	R 934		RS1/16S473J	
R 626		RS1/16S681J	R 935		RS1/16S472J	
R 627		RS1/16S681J	R 961		RS1/16S223J	
R 628		RS1/16S681J	R 962		RS1/16S182J	
R 632	(DEH-P2650)	RS1/16S104J	R 963		RS1/16S1R0J	
R 633	(DEH-P2650)	RS1/16S104J	R 965		RS1/16S182J	
R 640		RS1/16S0R0J	R 971		RS1/16S153J	
R 651		RS1/16S102J	R 972		RS1/16S153J	
D 652		RS1/16S183J	R 973		RS1/16S222J	
R 652 R 713		RS1/16S163J	R 981		RD1/4PU102J	Г.
R 716		RS1/16S221J	11 001		NO 17 11 0 1020	D
R 724		RS1/16S104J	CAPACITO	<u>ORS</u>		
R 727		RS1/16S0R0J				
D 700		D04/4000D04	C 101		CKSRYB104K16	
R 728		RS1/16S0R0J	C 102		CKSRYB473K25	
R 729 R 730		RS1/16S221J RS1/16S221J	C 103		CKSRYB102K50	
R 730		RS1/16S221J	C 104 C 131		CKSRYB102K50 CEJQ1R0M50	
R 732		RS1/16S221J	C 131		CEJQ I KUNDU	
			C 132		CEJQ1R0M50	
R 733		RS1/16S102J	C 133		CKSRYB104K16	
R 735		RS1/16S221J	C 134		CKSRYB104K16	
R 736		RS1/16S221J	C 135		CEJQ1R0M50	E
R 737 R 740		RS1/16S221J RS1/16S102J	C 136		CEJQ1R0M50	
17.740		1301/1001020	C 137		CEJQ1R0M50	
R 741		RS1/16S221J	C 137		CEJQ1R0M50	
R 742		RS1/16S221J	C 139		CEJQ470M16	
R 749		RS1/16S0R0J	C 140		CKSRYB104K16	
R 751		RD1/4PU221J	C 143		CEJQ100M16	-
R 752		RD1/4PU221J	0.445		OF 10 4D 71 405	
R 753		RS1/16S222J	C 145 C 146		CEJQ4R7M35 CEJQ4R7M35	
R 754		RS1/16S472J	C 146 C 147		CKSRYB153K50	
R 801	(DEH-P26,DEH-P2600)	RS1/16S102J	C 147		CKSRYB153K50	
R 802	(DEH-P26,DEH-P2600)	RS1/16S102J	C 301		CKSRYB474K10	F
R 831		RS1/16S222J				
R 832		RS1/16S222J	C 302		CKSRYB474K10	
R 833		RS1/16S222J RS1/16S222J	C 303		CKSRYB474K10	
555		,	DEH-P26/XM/UC	1		39
	5	6	DETI-I 20/XIVI/OC	7 -	8	■

<u>Circ</u>	cuit Symbol and No.	Part No.	Circ	cuit Symbol and No.	Part No.
C 304		CKSRYB474K10	D 1921	LED	CL-195SR-CD
C 305		CKSRYB474K10	D 1922	LED	CL-195SR-CD
C 306		CKSRYB474K10	D 1923	LED	CL-195SR-CD
C 307		CKSRYB474K10	D 1924	LED	CL-195SR-CD
C 308		CKSRYB474K10	D 1927	LED	CL-195SR-CD
C 309		CEJQ330M10	D 1950	LED	NSCW505C-3388
C 310	3300µF/16V	CCH1486	D 1951	LED	NSCW505C-3388
C 311	οσοφι / τον	CKSRYB104K25	X 1901	Ceramic Resonator 4.97Mh	
C 312		CEHAR100M16	S 1901	Push Switch	CSG1133
C 312		CKSQYB225K10	S 1901	Push Switch	CSG1135
C 314		CKSQYB225K10	S 1903	Push Switch	CSG1133
C 317 C 351		CKSQYB105K16 CEJQ2R2M50	S 1904 S 1905	Push Switch Push Switch	CSG1133 CSG1133
C 352		CEJQ2R2M50	S 1906	Push Switch	CSG1133
C 401		CKSRYB103K50	S 1907	Push Switch	CSG1133
C 402		CEJQ470M6R3	S 1908	Push Switch	CSG1135
C 403		CKSRYB103K50	S 1909	Push Switch	CSG1133
C 404		CKSRYB103K50	S 1910	Push Switch	CSG1135
C 405		CEJQ101M16	S 1911	Push Switch	CSG1133
C 407		CKSYB475K10	S 1912	Push Switch	CSG1133
C 602		CKSRYB105K10	S 1913	Push Switch	CSG1133
C 603		CCSRCH200J50	S 1914	Push Switch	CSG1133
C 604		CCSRCH200J50	S 1915	Push Switch	CSG1135
C 605		CEJQ4R7M35	S 1916	Push Switch	CSG1133
C 606		CKSRYB104K16	S 1917	Push Switch	CSG1133
C 608		CCSRCH101J50	S 1918	Push Switch	CSG1133
C 609		CCSRCH470J50	S 1960	Encoder(VOLUME)	XSD7001
C 609		CCSRCH470J50 CKSRYB104K16	S 1960 S 1961	Push Switch	CSG1111
0 011		01.74V10 1.76V10	S 1961	rusii swilcii	COGIIII
C 652		CEJQ1R0M50		LCD	CAW1760
C 729		CKSRYB473K25	BE0:00-	200	
C 751		CKSRYB224K10	RESISTO	<u>DKS</u>	
C 752		CKSRYB102K50			
C 753		CEJQ101M16	R 1900		RS1/16S222J
			R 1901		RS1/16S222J
C 901		CEJQ470M10	R 1902		RS1/16S2R2J
C 902		CKSRYB103K50	R 1904		RS1/16S121J
C 903		CKSRYB472K50	R 1910		RS1/16S181J
C 904	470µF/16V	CCH1331			,
C 911	•	CEJQ221M10	R 1911		RS1/16S181J
			R 1911		RS1/16S181J
C 912		CKSRYB103K50	R 1913		RS1/16S181J
C 913		CEJQ101M16			RS1/16S181J
C 921		CEJQ220M10	R 1914		
C 922		CKSRYB103K50	R 1915		RS1/16S181J
C 924		CEJQ4R7M35	D 4040		RS1/16S181J
C 924		OLUGHITIMOO	R 1916		
			R 1916 R 1917		RS1/16S181J
C 931		CKSRYB104K25			RS1/16S181J RS1/16S181J
			R 1917 R 1918		
C 931		CKSRYB104K25	R 1917		RS1/16S181J
C 931 C 962 C 972		CKSRYB104K25 CKSRYB103K50	R 1917 R 1918 R 1919 R 1920		RS1/16S181J RS1/16S181J RS1/16S181J
C 931 C 962		CKSRYB104K25 CKSRYB103K50	R 1917 R 1918 R 1919 R 1920 R 1921		RS1/16S181J RS1/16S181J RS1/16S181J
C 931 C 962 C 972	mber:XWM7035/D	CKSRYB104K25 CKSRYB103K50 CKSRYB104K25	R 1917 R 1918 R 1919 R 1920 R 1921 R 1922		RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J
C 931 C 962 C 972	mber:XWM7035(D	CKSRYB104K25 CKSRYB103K50 CKSRYB104K25	R 1917 R 1918 R 1919 R 1920 R 1921 R 1922 R 1923		RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J
C 931 C 962 C 972	mber:XWM7035(D me:Keyboard Unit	CKSRYB104K25 CKSRYB103K50 CKSRYB104K25	R 1917 R 1918 R 1919 R 1920 R 1921 R 1922		RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J
C 931 C 962 C 972	me:Keyboard Unit	CKSRYB104K25 CKSRYB103K50 CKSRYB104K25	R 1917 R 1918 R 1919 R 1920 R 1921 R 1922 R 1923 R 1925 R 1926		RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J
C 931 C 962 C 972 Unit Nu Unit Na	me:Keyboard Unit	CKSRYB104K25 CKSRYB103K50 CKSRYB104K25	R 1917 R 1918 R 1919 R 1920 R 1921 R 1922 R 1923 R 1925 R 1926		RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J
C 931 C 962 C 972 Unit Nu Unit Na	me:Keyboard Unit	CKSRYB104K25 CKSRYB103K50 CKSRYB104K25	R 1917 R 1918 R 1919 R 1920 R 1921 R 1922 R 1923 R 1925 R 1926 R 1927 R 1928		RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J
C 931 C 962 C 972 Unit Nu Unit Na MISCELL	me:Keyboard Unit . <u>ANEOUS</u> □C	CKSRYB104K25 CKSRYB103K50 CKSRYB104K25	R 1917 R 1918 R 1919 R 1920 R 1921 R 1922 R 1923 R 1925 R 1926 R 1927 R 1928 R 1929		RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J
C 931 C 962 C 972 Unit Nu Unit Na	me:Keyboard Unit	CKSRYB104K25 CKSRYB103K50 CKSRYB104K25 EH-P26)	R 1917 R 1918 R 1919 R 1920 R 1921 R 1922 R 1923 R 1925 R 1926 R 1927 R 1928 R 1929 R 1930		RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J
C 931 C 962 C 972 Unit Nu Unit Na MISCELL IC 1901 IC 1902	me:Keyboard Unit .ANEOUS IC IC	CKSRYB104K25 CKSRYB103K50 CKSRYB104K25 EH-P26)	R 1917 R 1918 R 1919 R 1920 R 1921 R 1922 R 1923 R 1925 R 1926 R 1927 R 1928 R 1929		RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J
C 931 C 962 C 972 Unit Nu Unit Nai MISCELL IC 1901 IC 1902 D 1900	me:Keyboard Unit .ANEOUS IC IC Diode	CKSRYB104K25 CKSRYB103K50 CKSRYB104K25 EH-P26)  PD6340A RS-140 DAN202U	R 1917 R 1918 R 1919 R 1920  R 1921 R 1922 R 1923 R 1925 R 1926  R 1927 R 1928 R 1929 R 1930 R 1931		RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J
C 931 C 962 C 972 Unit Nu Unit Nai MISCELL IC 1901 IC 1902 D 1900 D 1901	me:Keyboard Unit ANEOUS IC IC Diode Diode	CKSRYB104K25 CKSRYB103K50 CKSRYB104K25 EH-P26)  PD6340A RS-140 DAN202U DAP202U	R 1917 R 1918 R 1919 R 1920  R 1921 R 1922 R 1923 R 1925 R 1926  R 1927 R 1928 R 1929 R 1930 R 1931  R 1932		RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J
C 931 C 962 C 972 Unit Nu Unit Nai MISCELL IC 1901 IC 1902 D 1900 D 1901	me:Keyboard Unit  ANEOUS  IC IC Diode Diode LED  LED	CKSRYB104K25 CKSRYB103K50 CKSRYB104K25 EH-P26)  PD6340A RS-140 DAN202U DAP202U	R 1917 R 1918 R 1919 R 1920  R 1921 R 1922 R 1923 R 1925 R 1926  R 1927 R 1928 R 1929 R 1930 R 1931  R 1932 R 1932 R 1933		RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J
C 931 C 962 C 972 Unit Nu Unit Nai MISCELL IC 1901 IC 1902 D 1900 D 1901 D 1915	me:Keyboard Unit  ANEOUS  IC IC Diode Diode LED	CKSRYB104K25 CKSRYB103K50 CKSRYB104K25  EH-P26)  PD6340A RS-140 DAN202U DAP202U CL-195SR-CD	R 1917 R 1918 R 1919 R 1920  R 1921 R 1922 R 1923 R 1925 R 1926  R 1927 R 1928 R 1929 R 1930 R 1931  R 1932		RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J RS1/16S181J

		•			•	-		
Circ	uit Symbol and No.	Part No.		Circ	cuit Symbol and No.	Part No.		
R 1935	-	RS1/16S181J	R	ESISTO	RS			
R 1936		RS1/16S181J			<u></u>			
D		504/4004044		1900		RS1/16S222J		Α
R 1942		RS1/16S181J	R	1901		RS1/16S222J		
R 1945		RS1/16S181J		1902		RS1/16S2R2J		
R 1947		RS1/16S0R0J		1904		RS1/16S121J		
R 1948		RS1/16S0R0J	R	1910		RS1/16S181J		
R 1950		RS1/16S181J						
R 1951		RS1/16S181J		1911		RS1/16S181J		
R 1951		RS1/16S151J		1912		RS1/16S181J		
R 1952 R 1960		RS1/16S472J		1913		RS1/16S181J		
R 1980		RS1/16S472J		1914		RS1/16S181J		
1000		1101/1004/00	K	1915		RS1/16S181J		
CAPACIT	ORS		R	1916		RS1/16S181J		
07.11.71.01.1	<u> </u>			1917		RS1/16S181J		В
C 1900		CKSRYB224K10		1918		RS1/16S181J		_
C 1902		CKSYF106Z10		1919		RS1/16S181J		
				1920		RS1/16S181J		
C			R	1921		RS1/16S181J		
<b>Unit Nu</b>	mber:XWM7034(D	EH-P2600)		1922		RS1/16S181J		
	me:Keyboard Unit	•	R	1923		RS1/16S181J		
Omit Hai	nie.Reyboard Onn		R	1925		RS1/16S181J		
MISCELL	ANEOUS		R	1926		RS1/16S181J		
MISCELL	ANEOUS		_					
IC 1001	IC	PD6340A		1927		RS1/16S181J		
IC 1901 IC 1902	IC IC	RS-140		1928		RS1/16S181J		_
D 1900	Diode	DAN202U		1929		RS1/16S181J		С
D 1900 D 1901	Diode	DAP202U		1930		RS1/16S181J		
D 1901	LED	CL-195PG-CD	K	1931		RS1/16S181J		
D 1313		0E 1001 0 0D	P	1932		RS1/16S181J		
D 1918	LED	CL-195PG-CD		1933		RS1/16S181J		
D 1919	LED	CL-195PG-CD		1934		RS1/16S181J		
D 1921	LED	CL-195PG-CD		1935		RS1/16S181J		
D 1922	LED	CL-195PG-CD		1936		RS1/16S181J		
D 1923	LED	CL-195PG-CD						
			R	1942		RS1/16S181J		
D 1924	LED	CL-195PG-CD	R	1945		RS1/16S181J		
D 1927	LED	CL-195PG-CD	R	1947		RS1/16S0R0J		
D 1950	LED	NSCW505C-3388	R	1948		RS1/16S0R0J		D
D 1951	LED	NSCW505C-3388	R	1950		RS1/16S181J		
X 1901	Ceramic Resonator 4.97Ml	Hz CSS1573						
		000//0=		1951		RS1/16S181J		
S 1901	Switch	CSG1107		1952		RS1/16S151J		
S 1902	Push Switch	CSG1112		1960		RS1/16S472J		
S 1903	Switch Switch	CSG1107	R	1980		RS1/16S473J		
S 1904 S 1905	Switch Switch	CSG1107 CSG1107	_	4 D4 0:-	ODC			_
S 1905	SWILCH	0301107	<u>C</u>	APACIT	<u>UKS</u>			
S 1906	Switch	CSG1107	_	4000		01/05//502 !!!!		
S 1900	Switch	CSG1107		1900		CKSRYB224K10		
S 1908	Push Switch	CSG1112	C	1902		CKSYF106Z10		
S 1909	Switch	CSG1107		3				Е
S 1910	Push Switch	CSG1112						_
-					mber:XWM7068(I	DEH-D2650\		
S 1911	Switch	CSG1107			•	•		
S 1912	Switch	CSG1107	U	nit Na	me:Keyboard Uni	It		
S 1913	Switch	CSG1107						
S 1914	Switch	CSG1107	M	<u>ISCELL</u>	.ANEOUS			
S 1915	Push Switch	CSG1112						-
	0.11.1			1901	IC	PD6340A		
S 1916	Switch	CSG1107		1902	IC	RS-140		
S 1917	Switch	CSG1107		1900	Diode	DAN202U		
S 1918	Switch	CSG1107		1901	Diode	DAP202U		
S 1960	Encoder(VOLUME)	XSD7001	D	1915	LED	CL-195PG-CD		_
S 1961	Push Switch	CSG1111	_	40.5		01 40-50 5-		F
	LCD	CAW1759		1918	LED	CL-195PG-CD		
	LOD	OUA 1199		1919	LED	CL-195PG-CD		
			D	1921	LED	CL-195PG-CD		
			DEH-P26/X	M/LIC			41	
	_	_	DLI I-P 20/X	IVI/OC		_	<del>4</del> I	

	Circ	cuit Symbol and No.	Part No.	Circ	cuit Symbol and No.	Part No.
		-			our cymber and me	
	D 1922	LED	CL-195PG-CD			RS1/16S181J
	D 1923	LED	CL-195PG-CD			
Α	_			R 1942		RS1/16S181J
	D 1924	LED	CL-195PG-CD			RS1/16S181J
	D 1927	LED	CL-195PG-CD			RS1/16S0R0J
	D 1950	LED	NSCW505C-3	388 R 1948		RS1/16S0R0J
	D 1951	LED	NSCW505C-3	388 R 1950		RS1/16S181J
	X 1901	Ceramic Resonator 4.97MH	z CSS1573			
_				R 1951		RS1/16S181J
	S 1901	Switch	CSG1107	R 1952		RS1/16S151J
	S 1902	Push Switch	CSG1112	R 1960		RS1/16S472J
	S 1903	Switch	CSG1107	R 1980		RS1/16S473J
	S 1904	Switch	CSG1107			
	S 1905	Switch	CSG1107	CAPACIT	ORS	
	_					
В	S 1906	Switch	CSG1107	C 1900		CKSRYB224K10
	S 1907	Switch	CSG1107	C 1902		CKSYF106Z10
	S 1908	Push Switch	CSG1112			
	S 1909	Switch	CSG1107	Б		
	S 1910	Push Switch	CSG1112	В		
				Unit Nu	mber:CWM8758	
_	S 1911	Switch	CSG1107			
	S 1912	Switch	CSG1107	Unit Na	me:Panel Unit	
	S 1913	Switch	CSG1107			
	S 1914	Switch	CSG1107	MISCELI	_ANEOUS	
	S 1915	Push Switch	CSG1112			
				D 1970	LED	CL220PGC
	S 1916	Switch	CSG1107	S 1970	Push Switch(EJECT)	CSG1112
^	S 1917	Switch	CSG1107	6 1970	1 doi! Ownori(EdEO1)	0001112
С	S 1918	Switch	CSG1107	RESISTO	NDC	
	S 1960	Encoder(VOLUME)	XSD7001	KESISTO	<u> NS</u>	
	S 1961	Push Switch	CSG1111	5		20111201211
	5 1901	1 dan awiten	0301111	R 1970		RS1/16S101J
		LCD	CAW1764	R 1971		RS1/16S101J
		LCD	CAW1704	R 1972		RS1/16S0R0J
	RESISTO	RS		CAPACIT	ORS.	
				<u>OAI AOI I</u>	<u>OKO</u>	
	R 1900		RS1/16S222J	C 1970		CKSRYB104K16
	R 1901		RS1/16S222J	0 1070		OKOKI BIOTKIO
	R 1902		RS1/16S2R2J			
	R 1904		RS1/16S121J			
D	R 1910		RS1/16S181J	Unit Nu	mber:CWX2947	
	R 1911		RS1/16S181J	Unit Na	me:CD CORE UNIT	(S10)
	R 1912		RS1/16S181J			• •
	R 1913		RS1/16S181J	MISCELI	ANEOUS	
	R 1914		RS1/16S181J			
_	R 1915		RS1/16S181J	IC 201	IC	UPD63712AGC
	1010		1101/1001010	IC 301	IC	BA5835FP
	R 1916		RS1/16S181J			
	R 1917		RS1/16S181J	IC 701	IC	NJM2391DL1-33
	R 1918		RS1/16S181J	Q 101	Transistor	2SB1132
	R 1910		RS1/16S181J	D 101	Diode	1SS355
	R 1919		RS1/16S181J	D 704	D'a da	40D454 400
Е	K 1920		K31/1031013	D 701	Diode	1SR154-400
_	D 1001		DC4/46C404 I	X 201	Ceramic Resonator 16.934MHz	
	R 1921		RS1/16S181J	S 901	Switch(HOME)	CSN1051
	R 1922		RS1/16S181J	S 902	Switch(CLAMP)	CSN1051
	R 1923		RS1/16S181J	S 903	Spring Switch(DSCSNS)	CSN1052
	R 1925		RS1/16S181J			
	R 1926		RS1/16S181J	S 904	Switch(12EJ)	CSN1051
	D		50.44504544	S 905	Switch(8EJ)	CSN1051
	R 1927		RS1/16S181J			
	R 1928		RS1/16S181J	RESISTO	<u>DRS</u>	
	R 1929		RS1/16S181J			
	R 1930		RS1/16S181J	R 101		RS1/10S1R5J
	R 1931		RS1/16S181J	R 102		RS1/10S1R5J
				R 103		RS1/10S1R5J
F	R 1932		RS1/16S181J	R 103		RS1/10S1R5J
	R 1933		RS1/16S181J	R 105		RS1/10S1R5J
	R 1934		RS1/16S181J	17 103		1.0 1/ 100 11.00
	R 1935		RS1/16S181J	R 201		RS1/16S102J
_	42	_		DEH-P26/XM/UC	_	

_	<u> </u>	O			_	0		_
Circ	cuit Symbol and No.	Part No.		Circu	uit Symbol and No.	Part No.		
R 202	-	RS1/16S1002D		C 218	_	CCSRCH5R0C50		
R 203		RS1/16S1002D		C 219		CKSRYB104K16		
R 204		RS1/16S1002D		C 220		CKSRYB104K16		۸
R 205		RS1/16S1002D		C 221		CKSRYB104K16		Α
K 205		K31/1031002D						
D 000		D04/4004000D		C 222		CKSRYB103K25		
R 206		RS1/16S1002D		0 000		0000011000100		
R 207		RS1/16S1002D		C 223		CCSRCH680J50		
R 208		RS1/16S1002D		C 224		CCSRCH470J50		
R 209		RS1/16S1002D		C 225		CKSRYB682K50		
R 214		RS1/16S103J		C 231		CKSRYB102K50		
				C 232		CKSRYB102K50		
R 215		RS1/16S393J						
R 216		RS1/16S122J		C 301	100μF/16V	CCH1504		
R 217		RS1/16S562J		C 302	·	CCSRCH221J50		
R 218		RS1/16S472J		C 303		CCSRCH221J50		
R 234		RS1/16S0R0J		C 304		CKSRYB472K50		В
20.		110 17 10001100		C 305		CKSRYB103K25		ъ.
R 235		RS1/16S103J		0 303		ONON DIOSNES		
R 236		RS1/16S103J		C 306		CKSRYB104K16		
R 301		RS1/16S183J		C 501		CKSRYB103K25		
R 302		RS1/16S822J		C 502	= // /	CKSRYB103K25		
R 303		RS1/16S183J		C 702	100μF/16V	CCH1504		
				C 703		CKSRYB104K16		
R 304		RS1/16S822J						
R 305		RS1/16S183J		C 705	10μF/6.3V	CCH1470		
R 306		RS1/16S183J						
R 307		RS1/16S183J		Miscella	neous Parts List			
R 308		RS1/16S183J		Milocolla	noodo i di to Elot			
					Distant Hair(D40)(Oamiisa)	0\\\\4044		С
R 501		RS1/16S102J			Pickup Unit(P10)(Service)	CXX1641		C
R 503		RS1/16S102J		M 1	Motor Unit(SPINDLE)	CXB6007		
R 505		RS1/16S102J		M 2	Motor Unit(LOADING/CARRIAGE)	CXB8933		
R 506		RS1/16S221J						
R 507		RS1/16S221J						
R 508		RS1/16S221J						-
R 509		RS1/16S221J						
R 601		RS1/16S101J						
R 602		RS1/16S101J						
R 603		RS1/16S0R0J						
R 901		RS1/16S104J						D
R 902		RS1/16S473J						ט
R 903		RS1/16S273J						
17 303		101/1002/30						
CADACIT	ODE							
CAPACIT	<u>UKS</u>							
C 101		CKSRYB104K16						
C 102		CKSRYB104K16						-
C 103	100μF/16V	CCH1504						
C 104	47µF/6.3V	CCH1506						
C 108	•	CKSRYB104K16						
C 109		CKSRYB104K16						
C 201		CKSRYB104K16						Е
C 202		CKSRYB471K50						-
	22 [/6 2)./							
C 205	22μF/6.3V	CCH1507						
C 206		CKSRYB103K25						
C 207		CKSRYB104K16						
C 209		CKSRYB104K16						
C 210		CKSRYB104K16						_
C 211		CKSRYB104K16						
C 212		CKSRYB104K16						
C 213		CKSRYB332K50						
C 214		CKSRYB473K25						
C 215		CKSRYB104K16						F
C 216		CKSRYB103K25						•
C 216		CCSRCH560J50						
0 211		0001/01 1000000						
		_	5=	0.000	1			
			DEH-P26	/XM/UC	_		43	

1) Cautions on adjustments

• In this product the single voltage (3.3V) is used for the regulator. The reference voltage is the REFO1 (1.65V) instead of the GND.

If you should mistakenly short the REFO1 with the GND during adjustment, accurate voltage will not be obtained, and the servo's misoperation will apply excessive shock to the pickup. To avoid such problems:

a. Do not mix up the REFO1 with the GND when connecting the (-) probe of measuring instruments. Especially on an oscilloscope, avoid connecting the (-) probe for CH1 to the GND.

b. In many cases, measuring instruments have the same potential as that for the (-) probe. Be sure to set the measuring instruments to the floating state.

c. If you have mistakenly connected the REFO1 to the GND, turn off the regulator or the power immediately.

- Before mounting and removing filters or leads for adjustment, be sure to turn off the regulator.
- For stable circuit operation, keep the mechanism operating for about one minute or more after the regulator is turned on.
- In the test mode, any software protections will not work. Avoid applying any mechanical or electrical shock to the mechanism during adjustment.
- The RFI and RFO signals with a wide frequency range are easy to oscillate. When observing the signals, insert a resistor of 1k ohms in series.
- The load and eject operation is not guarantied with the mechanism upside down. If the mechanism is blocked due to mistaken eject operation, reset the product or turn off and on the ACC to restore it.

#### 2) Test mode

This mode is used to adjust the CD mechanism module.

• To enter the test mode.

While pressing the 4 and 6 keys at the same time, reset.

• To exit from the test mode.

Turn off the ACC and back up.

#### Notes:

a. During ejection, do not press any other keys than the EJECT key until the loaded disc is ejected.

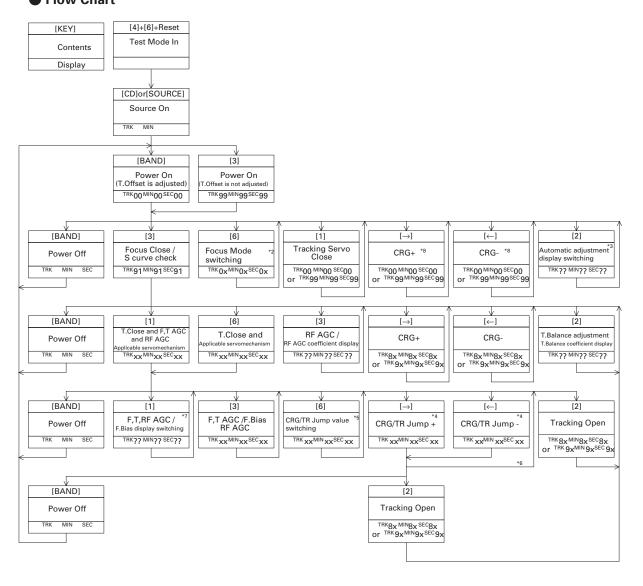
b. If you have pressed the  $(\rightarrow)$  key or  $(\leftarrow)$  key during focus search, turn off the power immediately to protect the actuator from damage caused by the lens stuck.

c. For the TR jump modes except 100TR, the track jump operation will continue even if the key is released.

- d. For the CRG move and 100TR jump modes, the tracking loop will be closed at the same time when the key is released.
- e. When the power is turned off and on, the jump mode is reset to the single TR (91), the RF amp gain is set to 0dB, and the auto-adjustment values are reset to the default settings.

D

Е



6

- \*1)  $\begin{array}{ccc} \text{TYP} & \rightarrow & \text{-12dB} \\ \text{TRK} & \text{MIN} & \text{SEC} & & \text{TRK 12 MIN 12 SEC 12} \\ & & & & & & & & \end{array}$
- \*2) Focus Close  $\to$  S.Curve  $\to$  F EQ measurement setting TRK 00 MIN 00 SEC 00 TRK 01 MIN 01 SEC 01 TRK 02 MIN 02 SEC 02 (TRK 99 MIN 99 SEC 99)
- \*3) F.Offset Display  $\,\to\,$  RF.Offset Display  $\,\to\,$  T.Offset Display
- \*4) 1TR/32TR/100TR
- \*5) Single TR  $\rightarrow$  32TR  $\rightarrow$  100TR  $\rightarrow$  CRG Move 9x(8x) : 91(81) 92(82) 93(83) 94(84)  $\uparrow$
- \*6) Only at the time of CRG Move or 100TR Jump \*7) TRK/MIN/SEC  $\rightarrow$  F.AGC  $\rightarrow$  T.AGC Gain  $\rightarrow$  F.bias  $\rightarrow$  RF AGC
- \*8) CRG motor voltage = 2[V]

5

	Operation				
[Key]					
	Test Mode				
[BAND]	Power On / Off				
[→]	CRG + / TR Jump + (Direction of the external surface)				
[←]	CRG - / TR Jump - Direction of the internal surface)				
[1]	CLS and AGC and Applicable servomechanism / AGC, AGC display switching				
[2]	RF Gain switching / Offset adjustment display / T.Balance adjustment / T.Open				
[3]	Close, S.Curve / Rough Servo and RF AGC / F, T, RF AGC				
-	SPDL 1X / 2X switching (Double-speed compatibility only)				
-	Gop measurement				
[6]	[6] Forcus Mode switching / Tracking Close / CRG, TR Jump switching				

7

8

Α

В

С

D

Ε

DEH-P26/XM/UC

45

## 6.2 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT



### • Note :

The grating angle of the PU unit cannot be adjusted after the PU unit is changed. The PU unit in the CD mechanism module is adjusted on the production line to match the CD mechanism module and is thus the best adjusted PU unit for the CD mechanism module. Changing the PU unit is thus best considered as a last resort. However, if the PU unit must be changed, the grating should be checked using the procedure below.

#### Purpose:

To check that the grating is within an acceptable range when the PU unit is changed.

#### · Symptoms of Mal-adjustment :

If the grating is off by a large amount symptoms such as being unable to close tracking, being unable to perform track search operations, or taking a long time for track searching.

#### · Method:

В

С

D

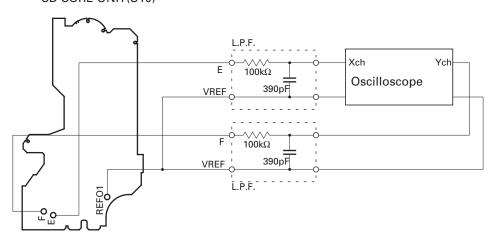
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F

Measuring Equipment
Measuring Points
Oscilloscope, Two L.P.F.
E, F, REFO1

DiscModeABEX TCD-782TEST MODE

### CD CORE UNIT(S10)



## Checking Procedure

- 1. In test mode, load the disc and switch the 3V regulator on.
- 2. Using the  $\rightarrow$  and  $\leftarrow$  buttons, move the PU unit to the innermost track.
- 3. Press key 3 to close focus, the display should read "91". Press key 2 to implement the tracking balance adjustment the display should now read "81". Press key 3. The display will change, returning to "81" on the fourth press.
- 4. As shown in the diagram above, monitor the LPF outputs using the oscilloscope and check that the phase difference is within 75°. Refer to the photographs supplied to determine the phase angle.
- 5. If the phase difference is determined to be greater than 75° try changing the PU unit to see if there is any improvement. If, after trying this a number of times, the grating angle does not become less than 75° then the mechanism should be judged to be at fault.

#### Note

Because of eccentricity in the disc and a slight misalignment of the clamping center the grating waveform may be seen to "wobble" (the phase difference changes as the disc rotates). The angle specified above indicates the average angle.

#### Hint

Reloading the disc changes the clamp position and may decrease the "wobble".

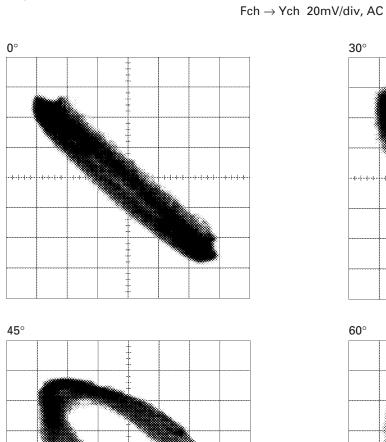
46

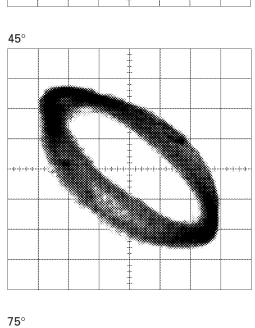
2

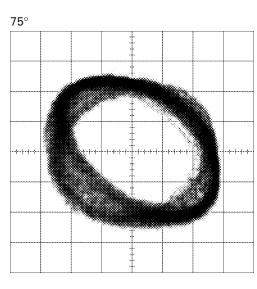
DEH-P26/XM/UC

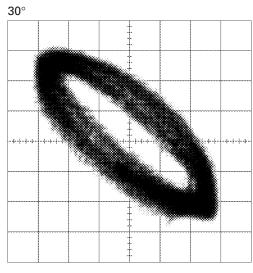
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5 6 7 8 **Grating waveform**  $Ech \to Xch \ 20mV/div, \, AC$ 









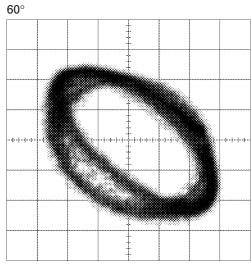
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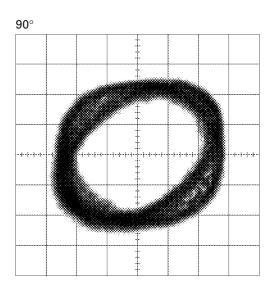
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DEH-P26/XM/UC

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# **6.3 ERROR MODE**

### Error Messages

If a CD is not operative or stopped during operation due to an error, the error mode is turned on and cause(s) of the error is indicated with a corresponding number. This arrangement is intended at reducing nonsense calls from the users and also for facilitating trouble analysis and repair work in servicing.

#### (1) Basic Indication Method

1) When SERRORM is selected for the CSMOD (CD mode area for the system), error codes are written to DMIN (minutes display area) and DSEC (seconds display area). The same data is written to DMIN and DSEC. DTNO remains in blank as before.

#### 2) Head unit display examples

Depending on display capability of LCD used, display will vary as shown below. xx contains the error number.

8-digit display	6-digit display	4-digit display
ERROR-xx	ERR-xx	E-xx

(2) Error Code List

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12/ 111	JI COUC LIST		
Code	Class	Displayed error code	Description of the code and potential cause(s)
10	Electricity	Carriage Home NG	CRG can't be moved to inner diameter.
		SERVO LSI Com-	CRG can't be moved from inner diameter.
		munication Error	ightarrow Failure on home switch or CRG move mechanism.
			Communication error between microcomputer and SERVO LSI.
11	Electricity	Focus Servo NG	Focusing not available.
			ightarrow Stains on rear side of disc or excessive vibrations on REWRITABLE.
12	Electricity	Spindle Lock NG	Spindle not locked. Sub-code is strange (not readable).
		Subcode NG	ightarrow Failure on spindle, stains or damages on disc, or excessive vibrations.
			A disc not containing CD-R data is found.
			Turned over disc are found, though rarely.
			CD signal error.
17	Electricity	Setup NG	AGC protection doesn't work. Focus can be easily lost.
			ightarrow Damages or stains on disc, or excessive vibrations on REWRITABLE.
30	Electricity	Search Time Out	Failed to reach target address.
			ightarrow CRG tracking error or damages on disc.
44	Electricity	ALL Skip	Skip setting for all track.
			(CD-R/RW)
50	Mechanism	CD On Mech Error	Mechanical error during CD ON.
			ightarrow Defective loading motor, mechanical lock and mechanical sensor.
A0	System	Power Supply NG	Power (VD) is ground faulted.
			$\rightarrow$ Failure on SW transistor or power supply (failure on connector).

Remarks: Mechanical errors are not displayed (because a CD is turned off in these errors).

Unreadable TOC does not constitute an error. An intended operation continues in this case.

Upper digits of an error code are subdivided as shown below:

1x: Setup relevant errors, 3x: Search relevant errors, Ax: Other errors.

DEH-P26/XM/UC

# **6.4 SYSTEM MICROCOMPUTER TEST PROGRAM**



### PCL output

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In the normal operation mode (with the detachable panel installed, the ACC switched ON, the standby mode cancelled), shift the TESTIN (Pin 5) terminal to H.

The clock signal is output from the PCL terminal (Pin 62).

The frequency of the clock signal is 786.432kHz that is one 4th of the fundamental frequency.

The clock signal should be 786.432kHz  $\pm 32$ Hz.

If the clock signal is out of the range, the X'tal (X601) should be replaced with new one.

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# 7. GENERAL INFORMATION

# 7.1 DIAGNOSIS

# 7.1.1 DISASSEMBLY

- Removing the Case (not shown)
- 1. Remove the Case.

### Removing the CD Mechanism Module (Fig.1)



Remove the four screws.

Disconnect the connector and then remove the CD Mechanism Module.

# Removing the Grille Assy (Fig.1)



Remove the two screws and then remove the Grille Assy.

# CD Mechanism Module

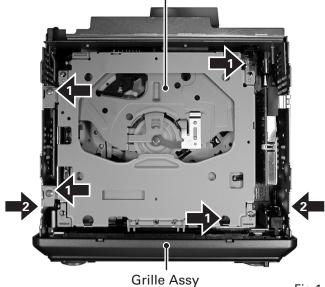


Fig.1

# Removing the Tuner Amp Unit (Fig.2)



Remove the screw and then remove the Holder.



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Remove the three screws.



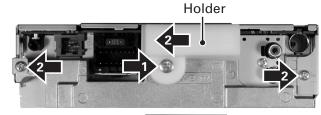
Remove the screw.

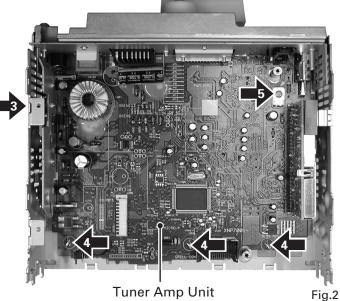


Straighten the tabs at three locations indicated.



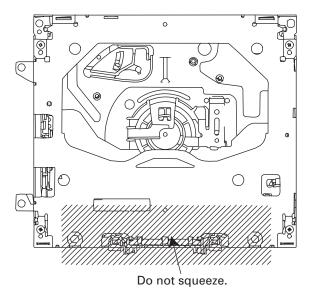
Remove the screw and then remove the Tuner Amp Unit.





DEH-P26/XM/UC

- 1. Hold the top and bottom frame.
- 2. Do not squeeze top frame's front portion too tight, because it is fragile.

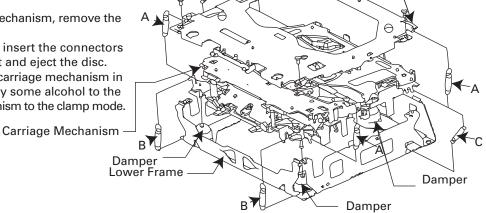


**Upper Frame** 

### Removing the Upper and Lower Frames

- 1. With a disc clamped, remove the four springs (A), the two springs (B), the two springs (C), and the four screws.
- 2. To remove the upper frame, open it on the fulcrum A.
- While lifting the carriage mechanism, remove the three dampers.
- 4. With the frames removed, insert the connectors coming from the main unit and eject the disc.

Caution: Before installing the carriage mechanism in the frames, be sure to apply some alcohol to the dampers and set the mechanism to the clamp mode.



DEH-P26/XM/UC

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### Removing the Pickup Unit

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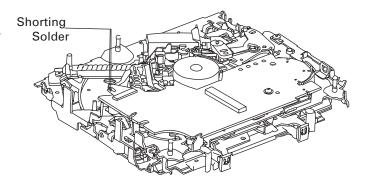
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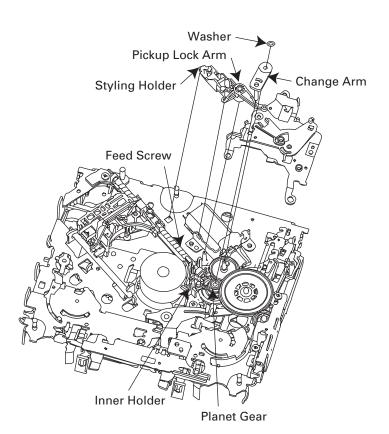
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1. Apply shorting solder to the Pickup flexible cable. Disconnect the cable.

- Set the mechanism to the clamp mode.
- 3. Remove the lead wires from the inner holder.
- 4. Remove the washer, styling holder, change arm, and pickup lock arm.
- 5. While releasing from the hook of the inner holder, lift the end of the feed screw.

Caution: In assembling, move the planet gear to the load/eject position before setting the feed screw in the inner holder.





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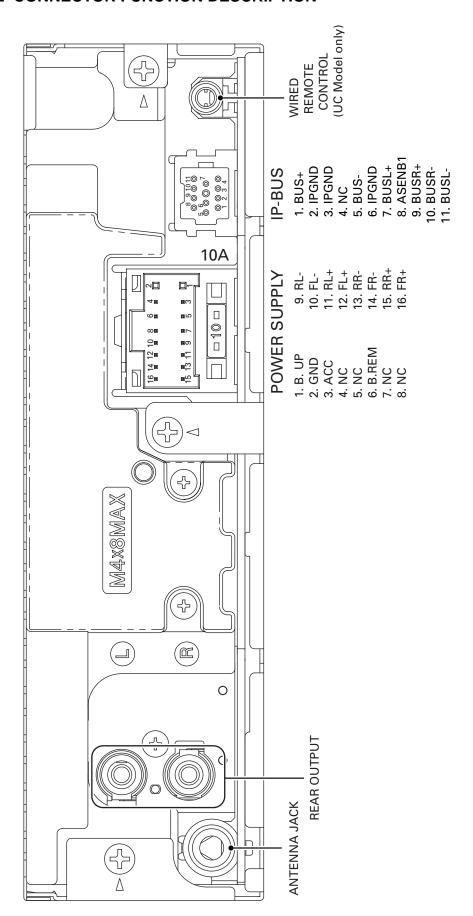
DEH-P26/XM/UC

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# 7.1.2 CONNECTOR FUNCTION DESCRIPTION

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# 7.2 PARTS 7.2.1 IC

Pin Fund	ctions(	(PE5405A)	)
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Pin No.	Pin Name	I/O	Format	Function and Operation
1	SWVDD	0	С	Grille : Chip enable output
2-4	NC			Not used
5	TESTIN	I		Test program mode input
6	LCDPW			Not used
7	TELIN	I		Telephone mute input
8	EJECTIN	I		Eject sense input
9	FLPILM	0	С	Flap illumination output
10	DALMON	0	С	For consumption low-current output
11	RESET	1		Reset input
12	XT2			Not used
13	XT1	1		Clock connection pin
14	VSS			GND
15	X2			Crystal oscillator connection pin
16	X1	1		Crystal oscillator connection pin
17	REGOFF	<u> </u>		Regulator operation specification signal
18	REGC			Capacitor for regulator connect pin
19	VDD			Power supply
20	ILMPW	0		Illumination power supply control output
			C	
21	SYSPW	0	C	System power control output
22	ADPW	0	С	A/D converter power supply control output
23	NC			Not used
24	IPPW	0	С	Power supply control output for IP BUS interface IC
25	NC			Not used
26	ROMDATA	0	С	ROM correction data output
27	ROMCLK			Not used
28	ROMCS			Not used
29-31	NC			Not used
32	TUNPCE2	0	С	PLL chip enable output2
33	VST	0	С	E.VOL : Strobe output
34	VCK	0	С	E.VOL : Clock output
35	VDT	0	С	E.VOL : Data output
36	ANTPW			Not used
37	MUTE	0	С	System mute output
38, 39	NC			Not used
40	VSS			GND
41	VDD			Power supply
42	RDS57K			Not used
43	DRST			Not used
44	RDSLK			Not used
45	RDT			Not used
46	DORAON			Not used
47	NC			Not used
48	CSENSOUT	0	С	CSENS state output
49-55	NC	<del>                                     </del>		Not used
56,57	ROT1,0	1		Rotary encoder pulse input 1,0
58	STRKEY2	0	С	Steering remote controller output
59	CDLOEJ	0	C	CD : Load Moter Load/Eject output
60	CLCONT	0	C	CD : Driver input switch output
61	CONT	0	C	CD : Servo driver power supply control output
62	PCL	0	C	Clock adjustment output
	CLAMPSW	1		
63		1	-	Clamp SW input
64	VDCONT	0	С	CD : VD power control output
65	XSCK	0	С	CD LSI clock output
66	XSI			CD LSI data input
67	XSO	0	С	CD LSI data output
68	XAO	0	С	CD LSI command/data control output
69	XRST	0	С	CD LSI reset control output
70	XSTB	0	С	CD LSI strobe output

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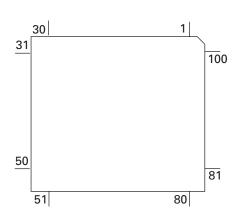
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DEH-P26/XM/UC

Pin No.	Pin Name	I/O	Format	
71	ASENSBO	0	С	IP-BUS : Slave power supply control output
72	EMUTE			Not used
73	TEST	I		GND
74	SL	1		TUNER : Signal level input
75	STRKEY1	1		Steering remote controller input
76	MODELIN			Not used
77	CSENS	1		Flap close sense input
78	NC			Not used
79	DSCSNS	1		CD : Disc insert sense input
80	VDSENS	1		CD: VD voltage sense input
81	TEMP	1		CD : Temperature sense input
82	AVDD			A/D converter power supply terminal
83	AVREF			A/D converter reference voltage terminal
84	AVSS			GND
85	RX	1		IP-BUS : Data input
86	TX	0	С	IP-BUS : Data output
87	NMI			GND
88	LDET	- 1		PLL lock sense input
89	RCK	1		RDS: Clock input
90	DSENS	- 1		Grille detach sense input
91	PACK	- 1		PACK input
92	ASENS	- 1		ACC power sense input
93	BSENS	1		Back up power sense input
94	TUNPDI	1		PLL IC data input
95	KYDT	I		Grille data input
96	DPDT	0	С	Grille data output
97	TUNPCK	0	С	PLL clock output
98	TUNPDO	0	С	PLL data output
99	TUNPCE	0	С	PLL chip enable output
100	PEE	0	С	Beep tone output

# \* PE5405A

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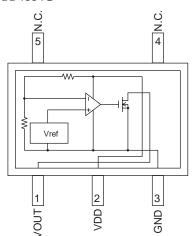
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IC's marked by \* are MOS type. Be careful in handling them because they are very liable to be damaged by electrostatic induction.

Format	Meaning
С	CMOS

# BD4834G



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VCC STB BUS+ BUS-8 6 5 BIAS DRIVER OUTPUT RECEIVER OUTPUT 2 3 S2 1 4 <u>S1</u> R GND

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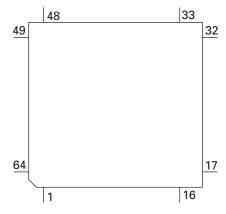
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# ● Pin Functions (PD6340A)

Pin No.	Pin Name	I/O	Function and Operation
1-5	SEG4-0	0	LCD segment output
6-9	COM3-0	0	LCD common output
10	VLCD		LCD drive power supply
11-14	KST3-0	0	Key strobe output
15,16	KDT0,1	I	Key data input (analogue input)
17	REM	I	Remote control reception input
18	DPDT	1	Display data input
19	NC		Not used
20	KYDT	0	Key data output
21	MODA		GND
22	XO		Crystal oscillator connection pin
23	XI		Crystal oscillator connection pin
24	VSS		GND
25,26	KDT2,3	I	Key data input
27,28	KST5,4	0	Key strobe output
29-55	SEG39-13	0	LCD segment output
56	VDD		Power supply
57-64	SEG12-5	0	LCD segment output

# \* PD6340A



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Pin Functions(UPD63712AGC) **Function and Operation** Pin No. Pin Name LD 0 Output of LD 1 2 PD Input of PD 1 Assignment of pickup polarity 3 PΝ ı AVDD Power supply for the analog system 4 5 DGND Ground for digital circuits 0 6 RFOK Output of RFOK INTQ 0 Interruption signals to the external microcomputer 7 8 RST Input of reset Т 9 Α0 Command/Parameter discrimination signal input 10 **STB** Data strobe signal input SCK Serial data clock input 11 12 SO 0 Serial data output 13 SI Serial data input DVDD Power supply for digital circuits 14 15 DAVDD Power supply for DAC О 16 **ROUT** Output of audio for the right channel 17 DAGND GND for DAC 18 REGC Connected to the capacitor for band gap 19 DAGND GND for DAC 20 LOUT 0 Output of audio for the left channel 21 DAVDD Power supply for DAC XVDD 22 Power supply for the crystal oscillator 23 **XTAL** О Connected to the crystal oscillator 24 **XTAL** Connected to the crystal oscillator I 25 XGND Ground for the crystal oscillator 26 DVDD Power supply for digital circuits 0 27 C1D1 Information on error correction 28 C1D2 0 Information on error correction 0 29 C2D1 Information on error correction C2D2 30 0 Information on error correction 31 C2D3 0 Information on error correction 32 LOCK 0 Output of LOCK 33 MIRR 0 MIRR signal **HOLD** signal HOLD 0 34 35 PLCK 0 Output of PLCK C16M Output of 16.9344MHz 36 0 37 DGND Ground for digital circuits 0 38 TX DAI output 39 **EMPH** 0 Pre-emphasis information output 40 FLAG О The flag for which output sound data cannot be corrected is outputted 41 DVDD Power supply for digital circuits Signal is inputted when the register can be read 42 LIMIT I 43 **XTALEN** I Permission to oscillate 44 DGND Ground for digital circuits 45 DIN Input of audio data 46 DOUT 0 Output of audio data 47 SCKIN Clock input for audio data I 0 48 **SCKO** Clock output for audio data 49 **LRCKIN** Input of LRCK for audio data 50 LRCK 0 Output LRCK for audio data DVDD 51 Power supply for digital circuits 52 FD+ 0 Output of focus drive PWM 53 FD-0 Output of focus drive PWM TD+ 0 Output of tracking drive PWM 54 55 TD-0 Output of tracking drive PWM 56 SD+ 0 Output of thread drive PWM 0 57 SD-Output of thread drive PWM MD+ 0 Output of spindle drive PWM 58 MD-0 Output of spindle drive PWM 59 DGND 60 Ground for digital circuits

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Pin No.	Pin Name	I/O	Function and Operation
61	TESTEN	I	Connected to GND
62-66	TEST4-0	1	Connected to GND
67	ADGND		GND for DAC
68	EFM	0	Output of EFM signals
69	ASY	I	Input of asymmetry
70	ADVDD		Power supply for DAC
71	RFI	- 1	Input of RF
72, 73	EQ2, 1		Equalizer 2, 1
74	RF-	I	Reversal input of RF
75	RF2-	1	Reversal input of RF2
76	AGCO	0	Output of RF
77	AGCI	I	Input of AGC
78	RFO	0	Output of RF
79	ATEST	0	Analog tests
80	C3T		Connection to the capacitor for detecting 3T
81	AGND		Ground for the analog system
82	Α	I	Input of A
83	С	I	Input of C
84	В	I	Input of B
85	D	I	Input of D
86	F	I	Input of F
87	Е	I	Input of E
88	VREFIN	I	Photo-detector input bias voltage
89	AVDD		Power supply for the analog system
90	REFOUT	0	Output of reference voltage
91	REFC		Connected to the capacitor for output of REFOUT
92	FE-	I	Reversal input of FE
93	FEO	0	Output of FE
94	ADCIN	I	TEST
95	TE-	I	Reversal input of TE
96	TEO	0	Output of TE
97	TE2	0	TE2
98	TEC	I	TEC
99	AGND		Ground for the analog system
100	PWMSW	1	Servo PWM mode switching

# \* UPD63712AGC

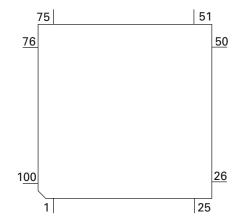
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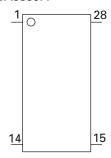
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Fill I ullu	CIONS(DASOSSI F)	I .
Pin No.	Pin Name	Function and Operation
1	VR	Input pin for reference voltage
2	OPIN2(+)	Input pin for non-inverting input for CH2 preamplifier
3	OPIN2(-)	Input pin for inverting input for CH2 preamplifier
4	OPOUT2	Output pin for CH2 preamplifier
5	OPIN1(+)	Input pin for non-inverting input for CH1 preamplifier
6	OPIN1(-)	Input pin for inverting input from CH1 preamplifier
7	OPOUT1	Output pin for CH1 preamplifier
8	GND	Ground pin
9	MUTE	Mute control pin
10	POWVCC1	Power supply pin for CH1, CH2, and CH3 at "Power" stage
11	VO1(-)	Driver CH1 - Negative output
12	VO1(+)	Driver CH2 - Positive output
13	VO2(-)	Driver CH2 - Negative output
14	VO2(+)	Driver CH2 - Positive output
15	VO3(+)	Driver CH2 - Positive output
16	VO3(-)	Driver CH2 - Negative output
17	VO4(+)	Driver CH4 - Positive output
18	VO4(-)	Driver CH4 - Negative output
19	POWVCC2	Power supply pin for CH4 at "Power" stage
20	GND	Ground pin
21	CNT	Control pin
22	LDIN	Loading input
23	OPOUTSL	Output pin for preamplifier for thread
24	OPINLSL	Input pin for preamplifier for thread
25	OPOUT3	CH3 preamplifier output pin
26	OPIN3(-)	Input pin for inverting input for CH3 preamplifier
27	OPIN3(+)	Input pin for non-inverting input for CH3 preamplifier
28	PREVCC	PreVcc

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DEH-P26/XM/UC

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No.	Symbol	I/O	Explain	
1	AMANT	I	AM antenna input	AM antenna input high impedance AMANT pin is connected with
				an all antenna by way of 4.7μH. (LAU type inductor) A series circuit
				including an inductor and a resistor is connected with RF ground for
	DEONID		55	the countermeasure against the hum of power transmission line.
	RFGND		RF ground	Ground of antenna block
3	FMANT		FM antenna input	Input of FM antenna $75\Omega$ Surge absorber(DSP-201M-S00B) is necessary.
4	VCC		power supply	The power supply for analog block. D.C 8.4V $\pm$ 0.3V
5	SL	0	signal level	Output of FM/AM signals level
6	CE2		chip enable-2	Chip enable for EEPROM "Low" active
7	WC	ı	write control	You can write EEPROM, when EEPROM write control is "Low".
				Ordinary non connection
8	CE1	- 1	chip enable-1	Chip enable for AF•RF "High" active
9	CK	- 1	clock	Clock
10	DI	-1	data in	Data input
11	NC		non connection	Not used
12	OSCGND		osc ground	Ground of oscillator block
13	ROM_VDD		power supply	Power supply for EEPROM pin 13 is connected with a power supply of
				micro computer.
14	DO	0	data out	Data output
15	DGND		digital ground	Ground of digital block
16	NC		non connection	Not used
17	VDD_3.3		power supply	The power supply for digital block. 3.3V $\pm$ 0.2V
18	NC		non connection	Not used
19	NC		non connection	Not used
20	NC		non connection	Not used
21	NC		non connection	Not used
22	AUDIOGND		audio ground	Ground of audio block
23	L ch	0	L channel output	FM stereo "L-ch" signal output or AM audio output
24	R ch	0	R channel output	FM stereo "R-ch" signal output or AM audio output

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DEH-P26/XM/UC

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● LCD(CAW1760)(DEH-P26/XM/UC) 2EC0 SEGI 2EG5 2EC3 2EC¢ 2EC2 SEC9 SEG7 SEG8 SEG9 SEC10 SEG11 SEG12 SEG13 2EC14 SEG16 SEG16 (M) (M) SEG17 SEG18 SEG19 2EC70 SEG21 2EG55 **SEG53** ф SEG5¢ 2EC72 Щ SEG56 2EG27 SEG58 SEG29 2EC30 **SEG31** 2EG35 2EC33 2EC3¢ 2EC32 COM0 COMO соми COM1 COM2 COM2 сомз сомз SEGMENT COMMON SEC39 2EC37 SEC38 SEC33

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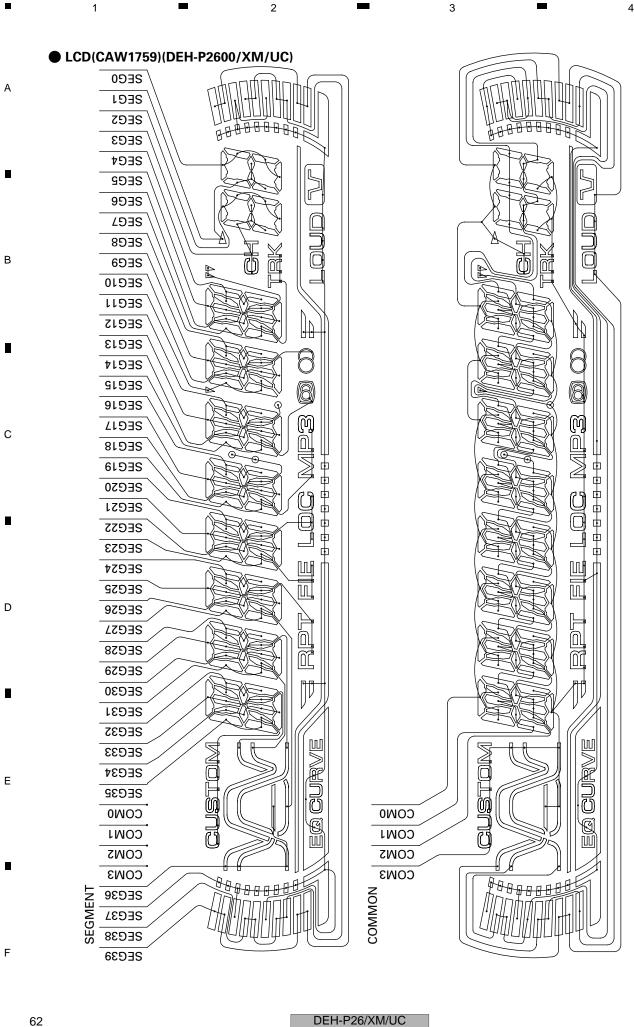
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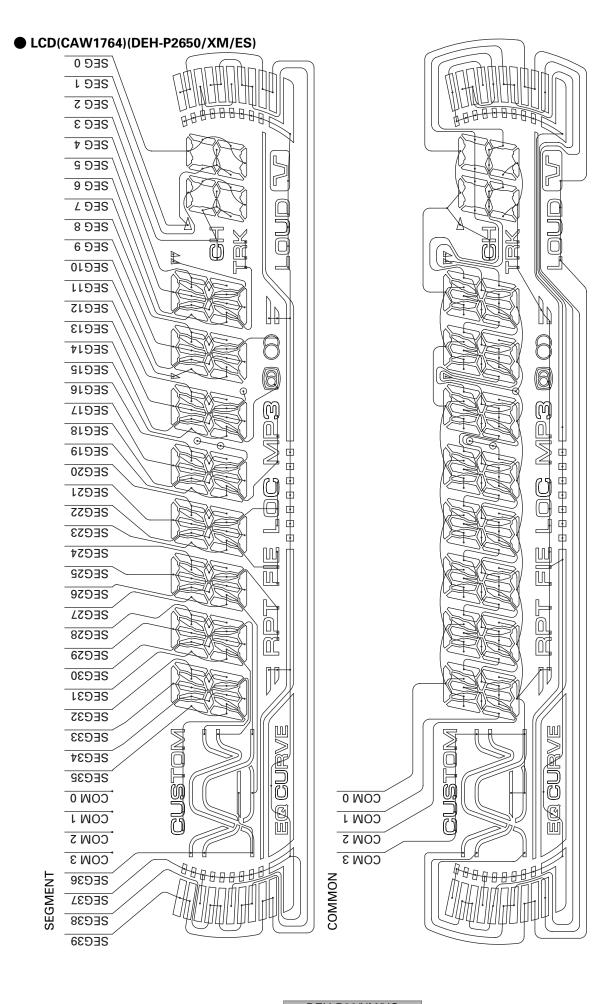
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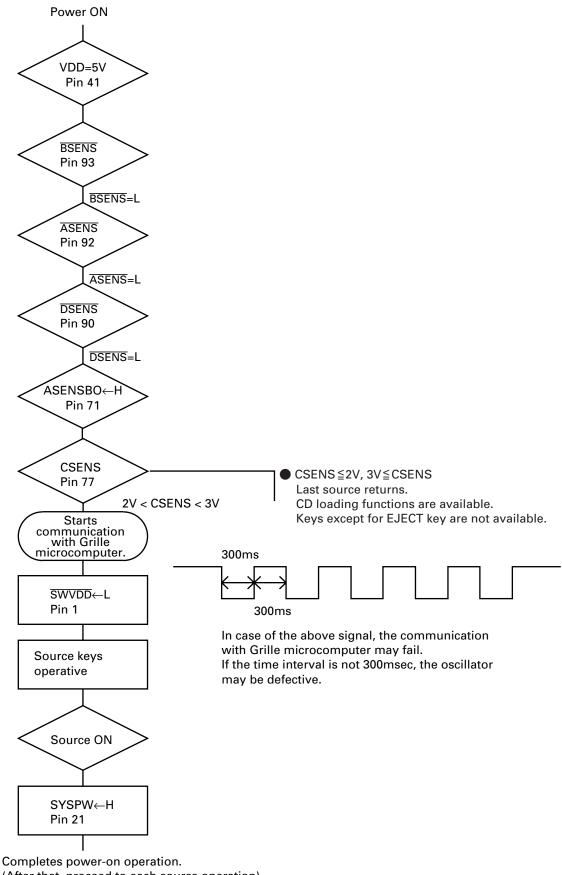
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(After that, proceed to each source operation)

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DEH-P26/XM/UC

# 7.4 CLEANING



Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

Portions to be cleaned	Cleaning tools
CD pickup lenses	Cleaning liquid : GEM1004
	Cleaning paper : GED-008

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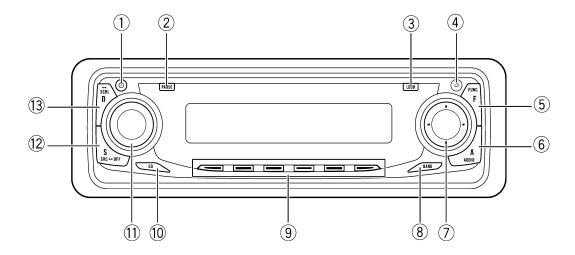
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# 8. OPERATIONS



# **Head unit**

# 1 CLOCK button

Press to change to the clock display.

### 2 PAUSE button

Press to turn pause on or off.

### **③ LOUDNESS button**

Press to turn loudness on or off.

### **4** OPEN button

Press to open the front panel.

### **(5) FUNCTION** button

Press to select functions.

### 6 AUDIO button

Press to select various sound quality controls.

### ⑦ A/▼/◄/▶ buttons

Press to do manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.

### **8 BAND button**

Press to select among three FM and one AM bands and cancel the control mode of functions.

### 9 1–6 buttons

Press for preset tuning and disc number search when using a multi-CD player.

### 10 EQ button

Press to select various equalizer curves.

### ① VOLUME

When you press **VOLUME**, it extends outward so that it becomes easier to turn. To retract **VOLUME**, press it again. Rotate to increase or decrease the volume.

### **12** SOURCE button

This unit is turned on by selecting a source. Press to cycle through all of the available sources.

## **13 DISPLAY button**

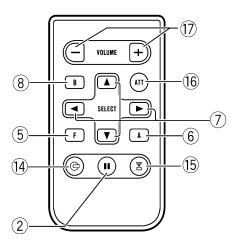
Press to select different displays.

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DEH-P26/XM/UC

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# **Remote control**

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Operation is the same as when using the button on the head unit. See the explanation of the head unit about the operation of each button with the exception of **ATT**, which is explained below.

### (14) CD button

Press to select the built-in or multi-CD player as the source.

### **15** TUNER button

Press to select the tuner as the source.

### **16** ATT button

Press to quickly lower the volume level, by about 90%. Press once more to return to the original volume level.

### **17 VOLUME button**

Press to increase or decrease the volume.

DEH-P26/XM/UC

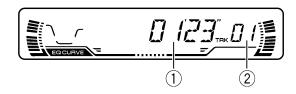
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# **Playing a CD**



These are the basic steps necessary to play a CD with your built-in CD player. More advanced CD operation is explained starting on the next page.

# 1 Play time indicator

Shows the elapsed playing time of the current track.

### **2** Track number indicator

Shows the track currently playing.

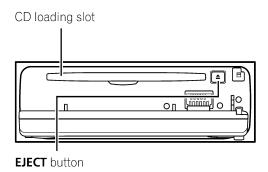
# 1 Press OPEN to open the front panel.

CD loading slot appears.

• After a CD has been inserted, press **SOURCE** to select the built-in CD player.

# 2 Insert a CD into the CD loading slot.

Playback will automatically start.



- You can eject a CD by pressing **EJECT**.
- To avoid a malfunction, make sure that no metal object comes into contact with the terminals when the front panel is open.

# 3 Close the front panel.

# 4 Use VOLUME to adjust the sound level.

Rotate to increase or decrease the volume.

# 5 To perform fast forward or reverse, press and hold ◀ or ►.

# 6 To skip back or forward to another track, press ◀ or ▶.

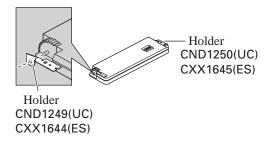
Pressing ► skips to the start of the next track. Pressing ◀ once skips to the start of the current track. Pressing again will skip to the previous track.

# **Notes**

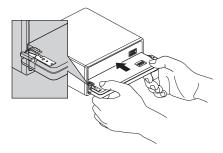
- The built-in CD player plays one, standard, 12-cm or 8-cm (single) CD at a time. Do not use an adapter when playing 8-cm CDs.
- Do not insert anything other than a CD into the CD loading slot.
- If you cannot insert a disc completely or if after you insert a disc the disc does not play, check that the label side of the disc is up.
   Press EJECT to eject the disc, and check the disc for damage before inserting the disc again.
- If the built-in CD player does not operate properly, an error message such as ERROR-11 may be displayed.
- The built-in CD player is not equipped with CD TEXT function.
- A CD TEXT disc is a CD featuring recorded text information such as disc title, artist name and track title.

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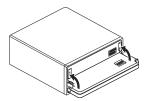
# 1. Attach the holders to both sides of the front panel.



2. Replace the front panel to the unit.



3. Flip the holders into upright positions.



4. Fix the front panel to the unit using fixing screws.



DEH-P26/XM/UC

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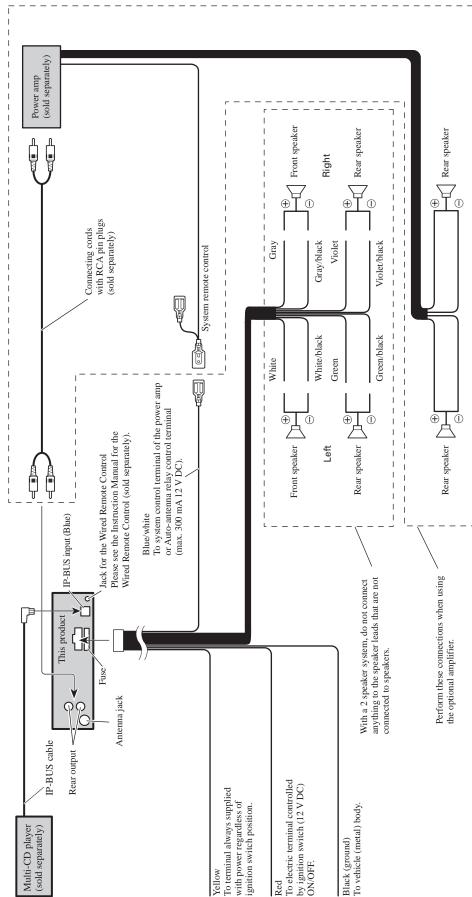
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DEH-P26/XM/UC